MAWIZ TECHNOLOGIES LTD

EMPOWERING AFRICA, INNOVATING MINDS.

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FORM :- ₦ 5,000

PROGRAMME OUTLINE, COST AND LEARNING OUTCOME

s/n	PROGRAMME	DURATION	PRICE
1	Computer Appreciation	3 months	₦30,000
2	Computer Appreciation Advance	6 months	₦ 60,000
3	Website Design front end	3 months	₦ 50,000
4	Website Design backend	3 months	₦ 50,000
5	Website Design full stack	6 months	₦ 90,000
6	Software Engineering	12 months	₦ 150,000
7	Cyber Security	3 months	₦ 90,000
8	Cyber Security	6 months	₦ 170,000
9	Mobile App Development	3 months	₦ 100,000
10	Data Analysis	3 months	₦ 70,000
11	Advance Data Analysis	6 months	₦ 130,000
12	Video Editing	3 months	₦ 50,000
13	Artificial intelligence/Machine Learning	3 months	₦ 100,000
14	AI for content creation	1 months	₦ 20,000
15	AI for content creation advance	3 months	₦ 50,000
16	AI Automations	3 months	₦ 70,000

SESSION	TIME	FREQUENCY
MORINING	10-12 am	**3 TIMES WEEKLY**
AFTERNOON	1-3 pm	
EVENING	4-6 pm	

COMPUTER APPRECIATION LEARNING OUTCOME (3 MONTHS)

What Students Will Be Able To Do After the Program

- Confidently operate a computer system and navigate the desktop environment.
- Use the Start Menu, Taskbar, and system settings efficiently.
- Properly start up and shut down a computer safely.
- Identify major computer hardware components and understand their functions.
- Organize digital files and folders professionally for easy access and management.
- Transfer files using USB flash drives and external storage devices safely.
- Create structured workstation folders and maintain organized digital workspaces.
- Type, edit, and professionally format documents using Microsoft Word.
- Create reports, letters, and documents and convert them into PDF format.
- Build spreadsheets using Microsoft Excel for calculations, records, and data entry.
- Apply basic spreadsheet formulas such as SUM and AVERAGE for simple calculations.
- Design and present slide presentations using Microsoft PowerPoint.
- Create professional office documents, reports, spreadsheets, and presentation materials.
- Browse the internet effectively using web browsers like Google Chrome and Microsoft Edge.
- Conduct online research and identify secure and trusted websites.
- Create and manage professional email accounts for communication.
- Send emails, attach files, organize inboxes, and avoid spam or suspicious messages.
- Apply cybersecurity best practices such as creating strong passwords and identifying phishing scams.
- Understand basic virus protection and safe internet usage habits.
- Compile research findings into organized digital documents and securely share them online.
- Work confidently in a modern digital office environment using essential computer applications.
- Improve digital literacy, productivity, and employability skills for academic, business, and workplace environments.

Program Outcome

At the end of the training, students will possess practical digital and office productivity skills that prepare them for:

- Administrative and office support roles
- Academic and research tasks
- Small business operations
- Personal productivity and digital communication
- Further ICT and technology training programs

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ADVANCE COMPUTER APPRECIATION LEARNING OUTCOME

(6 MONTHS)

Students Will Be Able To:

- Operate computer systems confidently and manage digital workspaces professionally.
- Create, organize, and manage files and office documents efficiently.
- Produce professionally formatted documents using Microsoft Word.
- Build advanced spreadsheets and perform professional data analysis using Microsoft Excel.
- Create formulas, financial sheets, reports, tables, charts, and automated calculations in Excel.
- Design professional presentations using Microsoft PowerPoint.
- Conduct online research, communicate professionally through email, and apply cybersecurity best practices.
- Manage digital communication and cloud-based file sharing effectively.

Graphic Design & Creative Skills

- Design professional flyers, posters, banners, and business cards.
- Create social media graphics and promotional materials for brands and businesses.
- Produce visually appealing event designs, certificates, and marketing content.
- Understand design principles such as color combination, typography, layout, and branding.
- Edit and arrange images, shapes, and text professionally.
- Create print-ready and digital-ready graphic designs.
- Develop creative portfolios for freelance or business opportunities.
- Use Canva templates and customization tools for fast professional design production.
- Create branding materials for schools, churches, businesses, and organizations.

Advanced Excel & Office Productivity Skills

- Use advanced Excel formulas and functions for professional office tasks.
- Create financial records, attendance systems, inventory sheets, and automated reports.
- Generate charts, graphs, and professional business reports.
- Analyze and organize large datasets efficiently.
- Improve workplace productivity through advanced spreadsheet management techniques.

Career & Business Opportunities

At the end of the 6-Month Program, students will be equipped for:

- Office administration and data management roles
- Graphic design and branding services
- Freelancing and digital creative work
- Business documentation and reporting
- Social media content creation

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- Entrepreneurial and small business support services
- Advanced ICT and digital skill development programs

Program Outcome

Graduates of the 6-Month Program will possess practical computer, office productivity, and graphic design skills required to function effectively in today's digital workplace and creative industry.

FRONTEND WEB DEVELOPMENT – 3 MONTHS

After completing the Frontend Web Design Program, students will gain practical skills in modern web development and user interface creation. They will be able to design, build, and deploy responsive websites and interactive web applications using current frontend technologies.

Students Will Be Able To:

- Understand how the internet and websites work, including clients, servers, hosting, and DNS systems.
- Structure professional web pages using semantic HTML5 elements.
- Create forms, multimedia sections, and accessible webpage layouts.
- Style websites professionally using CSS.
- Build responsive layouts using Flexbox, CSS Grid, and Media Queries.
- Design websites that adapt properly across mobile, tablet, and desktop devices.
- Apply modern typography, spacing, color, and layout techniques for professional UI design.

JavaScript & Interactive Web Development Skills

Students will also learn modern programming concepts using JavaScript and will be able to:

- Write JavaScript logic using variables, functions, arrays, and conditionals.
- Manipulate webpage content dynamically through DOM interactions.
- Handle user actions such as clicks, form submissions, and input events.
- Create dynamic webpage elements programmatically.
- Work with JSON data structures and template literals.
- Build interactive frontend experiences for users.

API Integration & Dynamic Applications

By the end of the program, students will be able to:

- Consume external APIs using the Fetch API.
- Work with asynchronous JavaScript using Promises and Async/Await.
- Display live data dynamically inside applications.
- Handle loading states, API errors, and responsive data rendering.
- Build functional dashboards and data-driven applications such as:
    - Weather applications
    - Product catalogs
    - Live tracking interfaces

Version Control & Developer Workflow

Students will gain professional development workflow skills including:

- Using Git for version control and collaboration.
- Managing repositories and code history with GitHub.
- Understanding branching, merging, and deployment workflows.
- Using package managers such as npm and yarn.
- Working with modern frontend tooling and terminal commands.
- Deploying live projects using platforms like Vercel and GitHub Pages.

React & Modern Frontend Framework Skills

Students will be introduced to modern frontend architecture using React and will be able to:

- Build reusable UI components using JSX and functional components.
- Pass and manage component props effectively.
- Manage application state using React Hooks such as useState and useEffect.
- Create Single Page Applications (SPAs).
- Implement client-side routing using React Router.
- Fetch and display external data inside React applications.

Modern UI & Styling Skills

Students will additionally be able to:

- Build modern user interfaces using:
  - Tailwind CSS
  - Bootstrap
- Create consistent and reusable design systems.
- Develop visually clean and responsive frontend interfaces.
- Optimize frontend performance and project structure.

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Real-World Projects Students Will Build

During the program, students will complete practical capstone projects including:

- A responsive company landing page
- A multi-section responsive website
- A dynamic API-powered dashboard or mini web application
- A production-ready React Single Page Application portfolio project

Career & Freelance Opportunities

At the end of the program, students will be prepared for:

- Frontend Web Developer roles
- Junior React Developer positions

- Freelance web design and development
- Landing page and portfolio website development
- UI implementation and frontend support roles
- Startup and business website development
- Advanced software engineering pathways

Program Outcome

Graduates of the Frontend Web Design Program will possess the practical skills needed to design, develop, deploy, and maintain modern responsive websites and interactive frontend applications using industry-standard tools and technologies.

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BACKEND DEVELOPMENT – 3 MONTHS

After completing the Backend Development Program, students will gain practical server-side engineering skills required to build secure, scalable, and production-ready backend applications using modern development tools and technologies.

The program equips students with hands-on experience in backend architecture, APIs, databases, authentication systems, real-time communication, cloud deployment, and DevOps workflows.

Students Will Be Able To:

- Understand how backend systems power modern web and mobile applications.
- Explain client-server architecture and HTTP communication workflows.
- Build server-side applications using Node.js.
- Work with modules, file systems, and server-side path handling.
- Structure scalable backend applications professionally.

Express.js & API Development Skills

Students will learn backend server development using Express.js and will be able to:

- Create custom backend servers and configure application ports.
- Build RESTful APIs using:
  - GET
  - POST
  - PUT
  - DELETE request methods
- Handle request bodies, URL parameters, and middleware processing.
- Design clean API architectures using MVC patterns.
- Test backend APIs using:
  - Postman
  - Insomnia

Database & Data Management Skills

Students will gain practical database engineering knowledge using:

- PostgreSQL
- MySQL

By the end of the program, students will be able to:

- Design structured relational databases.
- Create tables with primary and foreign key relationships.
- Perform CRUD operations using SQL queries.
- Structure scalable data storage systems.
- Optimize database workflows and relationships.

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Authentication & Security Skills

Students will learn enterprise-grade security implementation techniques and will be able to:

- Hash and secure passwords using bcrypt.
- Implement authentication systems using:
  - JSON Web Token (JWT)
- Build authorization middleware for protected routes.
- Manage user sessions and role-based access control.
- Secure backend applications against unauthorized access.

ORM & Backend Architecture Skills

Students will additionally learn modern backend abstraction tools including:

- Sequelize
- Mongoose

Students will be able to:

- Build models and relationships dynamically.
- Manage database migrations and seeding workflows.
- Implement One-to-Many and Many-to-Many relationships.
- Simplify database interactions through ORM systems.

Middleware, File Uploads & Server Utilities

Students will gain hands-on experience in backend utilities and infrastructure management including:

- Error handling middleware implementation.
- Configuring CORS for secure frontend-backend communication.
- Handling file uploads using:
  - Multer
- Managing application validations and server-side workflows.

Advanced Backend & Performance Optimization Skills

Students will also be able to:

- Optimize backend performance and query efficiency.
- Implement caching systems using:
  - Redis
- Manage environment variables and application configurations.
- Improve scalability and backend response performance.

Real-Time Communication Skills

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Students will gain modern real-time backend engineering experience using:

- Socket.IO

By the end of the training, students will be able to:

- Build live event-driven applications.
- Handle persistent client-server connections.
- Create real-time chat systems and collaborative applications.
- Manage room states and connected user sessions dynamically.

Cloud Deployment & DevOps Skills

Students will additionally learn professional deployment workflows using:

- Docker
- Amazon Web Services
- Render

Students will be able to:

- Containerize backend applications using Docker.
- Deploy APIs and servers to cloud hosting platforms.
- Configure production environments.
- Monitor server logs and application health.
- Deploy scalable backend systems publicly.

Real-World Projects Students Will Build

During the program, students will complete major backend engineering projects including:

- A secure Product Catalog REST API
- A Multi-User Authentication & Authorization System
- A Production-Grade Real-Time Backend Application
    - Live Chat System
    - Collaborative Backend Hub
    - Real-Time Event Server

Career & Freelance Opportunities

At the end of the program, students will be prepared for:

- Backend Developer roles
- Node.js Developer positions
- API Development jobs
- Full Stack Engineering pathways
- Cloud backend deployment roles
- Freelance backend engineering projects

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- Startup and SaaS backend system development
- Real-time application engineering

Program Outcome

Graduates of the Backend Development Program will possess practical backend engineering skills required to build secure, scalable, cloud-deployed, and production-ready server applications using modern backend technologies and professional development workflows.

Full-Stack Web Development Program – 6 MONTHS

After completing the 6-Month Full-Stack Development Program, students will possess end-to-end software development skills, enabling them to design, build, deploy, and maintain complete modern web applications from scratch to production.

This program combines frontend development, backend engineering, databases, authentication systems, and cloud deployment into one professional workflow training path.

Frontend Development Skills

- Build responsive and interactive websites using HTML5 and CSS.
- Develop dynamic user interfaces using JavaScript.
- Create modern web applications using React.
- Build reusable UI components, manage state, and handle application logic.
- Design responsive layouts using Tailwind CSS or Bootstrap frameworks.
- Consume APIs and dynamically render live data on the frontend.
- Deploy frontend applications using platforms like Vercel and GitHub Pages.

Backend Development Skills

- Build secure and scalable server-side applications using Node.js.
- Develop RESTful APIs using Express.js.
- Handle authentication and authorization using JWT-based systems.
- Secure applications using password hashing and middleware protection.
- Manage file uploads, server validation, and request handling.
- Build real-time applications using WebSockets and Socket.IO.

Database & Data Management Skills

- Design and manage relational and non-relational databases using:
    - PostgreSQL
    - MySQL

    - MongoDB
- Structure data using proper relationships (One-to-One, One-to-Many, Many-to-Many).
- Perform CRUD operations and write efficient queries.
- Use ORM tools like Sequelize and Mongoose for database abstraction.

API Integration & Full-System Communication

Students will be able to:

- Connect frontend and backend systems seamlessly.
- Build and consume RESTful APIs.
- Handle asynchronous data flow between client and server.
- Manage real-time data updates across applications.
- Debug full-stack applications effectively.

Authentication, Security & System Design

Students will gain professional system security skills including:

- User authentication and role-based access control.
- Secure token-based systems using JSON Web Tokens.
- Middleware-driven request validation and security rules.
- Protection against common web vulnerabilities.
- Designing scalable backend architectures.

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DevOps, Deployment & Cloud Skills

Students will be able to:

- Deploy full-stack applications using Docker containerization.
- Host backend services on cloud platforms like Render or AWS.
- Manage environment variables and production configurations.
- Monitor logs, performance, and server health.
- Automate deployment workflows using Git and GitHub.

Real-Time & Advanced Application Skills

Students will be able to:

- Build real-time applications such as chat systems and dashboards.

- Implement live updates using Socket.IO.
- Handle concurrent users and dynamic data streams.
- Optimize application performance and responsiveness.

Capstone Projects Students Will Build

Throughout the program, students will complete real-world projects including:

- A Responsive Frontend Website (Landing Page / Portfolio)
- A Full RESTful Backend API System
- A Secure Authentication System (Login/Register Platform)
- A Dynamic Full-Stack Web Application
- A Real-Time Application (Chat App / Dashboard System)
- A Production-Ready Full-Stack Portfolio Project

Career & Industry Opportunities

Graduates of the Full-Stack Program will be prepared for:

- Full-Stack Web Developer roles
- Frontend Developer positions
- Backend Developer roles
- API Developer / Node.js Engineer roles
- Freelance web and app development
- Startup product development teams
- SaaS application development
- Remote international tech opportunities

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Program Outcome

At the end of the 6-Month Full-Stack Program, students will be capable of independently building complete, production-ready web applications—covering frontend interfaces, backend systems, databases, APIs, authentication, real-time features, and cloud deployment—meeting modern industry standards for software development.

1-Year Full Software Engineering Program

After completing this **12-month intensive Software Engineering Program**, students will become **industry-ready software engineers** capable of designing, building, testing, securing, and deploying full-scale enterprise applications across frontend, backend, databases, algorithms, distributed systems, and cloud infrastructure.

This program transforms learners into **job-ready full-stack and backend engineers with strong computer science foundations and real-world system-building experience**

Core Programming & Computer Science Foundations

- Understand how software executes at a low level (compilation, runtime, memory models).
- Apply memory management concepts including stack vs heap.
- Write efficient programs using control structures, data types, and logic flow.
- Think algorithmically and solve complex engineering problems systematically.
- Develop strong programming fundamentals applicable to any language or framework.

Object-Oriented Programming & System Design Thinking

Students will master Object-Oriented Programming and be able to:

- Design scalable software systems using classes, objects, and modular architecture.
- Apply the 4 pillars of OOP:
  - Encapsulation
  - Inheritance
  - Polymorphism
  - Abstraction
- Build reusable and maintainable enterprise-level code structures.
- Apply SOLID principles and clean architecture concepts.
- Model real-world systems into software blueprints.

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Data Structures, Algorithms & Problem Solving

Students will be able to:

- Implement advanced data structures:
  - Arrays, Linked Lists, Stacks, Queues
  - Trees (BST, AVL, Red-Black Trees)
  - Hash Tables and Graph foundations
- Solve complex algorithmic problems efficiently.
- Apply sorting/searching algorithms (Merge Sort, Quick Sort, Binary Search).
- Analyze performance using Big-O notation.
- Build optimized systems for large-scale data processing.

Enterprise Software Engineering Projects

Students will build:

- CLI-based enterprise systems (banking, inventory, school systems)
- Memory-based processing engines
- Data analytics and search engines
- Performance-optimized backend services

They will understand how real enterprise systems are structured internally.

Database Engineering & Data Architecture

Students will master relational and non-relational systems using:

- PostgreSQL
- MySQL
- MongoDB

They will be able to:

- Design normalized database architectures (1NF → 3NF+)
- Build complex relational schemas and ER diagrams
- Write advanced SQL queries (joins, aggregations, subqueries)
- Optimize database performance using indexing and query tuning
- Manage ACID transactions and data integrity systems

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Backend Engineering & API Development

Students will be able to build production backend systems using:

- Node.js
- Express.js

They will learn to:

- Build scalable RESTful APIs using MVC architecture
- Design enterprise-grade backend systems
- Implement middleware pipelines and validation layers
- Manage request handling, routing, and error systems
- Structure modular backend applications for scalability

Security, Authentication & System Protection

Students will be able to:

- Implement secure authentication systems using JWT
- Encrypt and protect sensitive data using hashing algorithms
- Build role-based access control (Admin, User, Guest systems)
- Prevent attacks such as SQL injection, XSS, and CSRF
- Secure APIs using environment variables and security best practices

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Frontend Engineering & UI Development

Students will master frontend development using:

- HTML5
- CSS
- JavaScript

They will be able to:

- Build responsive, modern user interfaces
- Create interactive web applications using DOM manipulation
- Design dashboards, forms, and UI systems
- Fetch and display API data dynamically
- Build production-ready UI systems

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Modern Frontend Architecture (React Ecosystem)

Students will gain advanced skills in React:

- Build Single Page Applications (SPAs)
- Create reusable UI components with JSX
- Manage state using hooks (useState, useEffect)
- Implement routing using React Router
- Use Context API for global state management
- Build full production frontend applications

Real-Time Systems & Distributed Architecture

Students will be able to:

- Build real-time applications using WebSockets (Socket.IO)
- Develop event-driven architectures
- Implement caching systems using Redis
- Work with message queues (RabbitMQ / Kafka concepts)
- Build scalable chat, notification, and live update systems

DevOps, Cloud & Production Deployment

Students will gain enterprise deployment skills including:

- Containerization using Docker
- CI/CD pipeline automation (GitHub Actions)
- Cloud hosting (AWS, DigitalOcean, Render)
- Load balancing and reverse proxy setup (Nginx concepts)
- Monitoring, logging, and production debugging
- Deploying full-stack systems to live production environments

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Software Testing, QA & Code Quality

Students will be able to:

- Write unit and integration tests (Jest / PyTest)
- Apply Test-Driven Development (TDD)
- Perform API and system testing
- Automate testing pipelines via CI/CD
- Maintain high code quality and production reliability

Distributed Systems & Advanced Engineering Concepts

Students will understand:

- Microservices vs Monolithic architecture
- API Gateway and system scaling strategies
- Data sharding and load distribution
- Network traffic routing and system reliability
- High availability system design concepts

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Capstone Projects (Enterprise Level Portfolio)

Students will complete **12 advanced real-world systems**, including:

- CLI Enterprise System (Banking / School / Inventory)
- Data Structures Engine (Custom Stack/Queue system)
- Algorithmic Search & Analytics Engine
- Relational Inventory Management System
- Secure REST API (MVC Architecture)
- Authentication & Role-Based Access System
- Interactive Frontend Dashboard
- Full React E-Commerce Platform
- Real-Time Chat & Messaging System
- Microservices Architecture with Load Balancer
- TDD Refactored Production Backend
- Fully Deployed Cloud Enterprise System

Career & Industry Opportunities

Graduates will be qualified for:

- Full-Stack Software Engineer roles
- Backend Engineer (Node.js Specialist)
- Frontend Engineer (React Developer)
- DevOps / Cloud Engineer Junior Roles
- API & System Engineer positions
- Startup engineering teams
- Freelance enterprise software development
- Remote global tech opportunities

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Program Outcome

At the end of this **1-Year Software Engineering Program**, students will be capable of building **enterprise-grade, production-ready software systems from scratch**, including frontend applications, backend APIs, databases, distributed systems, real-time services, and cloud deployments—making them fully prepared for real-world software engineering careers globally.

Cyber Security Program

After completing this **Cyber Security Training Program**, students will possess practical, industry-relevant skills to protect systems, detect vulnerabilities, respond to cyber threats, and secure digital infrastructures across networks, applications, and cloud environments.

This program prepares learners to function as **junior cyber security analysts, ethical hackers, and security support engineers** in real-world environments.

Networking & Security Fundamentals

- Understand how computer networks operate, including IP addressing, routing, and DNS systems.
- Analyze how data moves across systems using protocols such as HTTP, HTTPS, TCP/IP, and UDP.
- Identify vulnerabilities in network infrastructures.
- Work with network analysis tools like Wireshark to inspect traffic and detect anomalies.
- Understand core principles of cybersecurity as part of Cyber Security.

Ethical Hacking & Penetration Testing

Students will be able to:

- Perform vulnerability assessments on systems and web applications.
- Conduct ethical hacking simulations using tools such as:
    - Kali Linux
    - Nmap
    - Metasploit Framework
- Identify system weaknesses before attackers can exploit them.
- Simulate real-world attack scenarios in controlled environments.

Web Application Security

Students will learn to:

- Detect and prevent common web vulnerabilities based on OWASP standards.
- Secure applications against:
    - SQL Injection

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    - Cross-Site Scripting (XSS)
    - Cross-Site Request Forgery (CSRF)
- Analyze authentication and authorization weaknesses in web systems.
- Test APIs for security loopholes and improper access controls.

Cryptography & Data Protection

Students will be able to:

- Understand modern encryption techniques and secure communication systems.
- Apply hashing, salting, and encryption principles for data protection.
- Secure sensitive data in storage and transmission.
- Understand public-key and private-key cryptography systems.

System Security & Operating System Hardening

Students will gain skills in:

- Securing Linux and Windows environments.
- Managing user permissions and access controls.
- Detecting malicious processes and unauthorized system activity.
- Hardening system configurations to reduce attack surfaces.
- Monitoring system logs for suspicious behavior.

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Security Monitoring & Incident Response

Students will be able to:

- Detect and respond to cyber attacks in real time.
- Analyze logs and system alerts for intrusion detection.
- Understand Security Information and Event Management (SIEM) systems.
- Perform basic incident response procedures including containment and recovery.
- Investigate breaches and trace attack origins.

Malware Analysis & Threat Detection

Students will learn to:

- Identify malware behavior and attack patterns.
- Analyze suspicious files and processes safely.

- Understand how viruses, worms, ransomware, and trojans operate.
- Detect anomalies using behavioral analysis techniques.

Cloud & Network Security

Students will be able to:

- Secure cloud environments and virtual servers.
- Understand cloud security risks and mitigation strategies.
- Configure secure access to cloud-hosted applications.
- Apply security best practices for distributed systems.

Scripting & Automation for Security

Students will learn to:

- Write automation scripts using Python for security tasks.
- Automate vulnerability scanning and log analysis.
- Build simple security tools for monitoring and detection.
- Improve efficiency in repetitive security operations.

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Digital Forensics & Investigation

Students will be able to:

- Collect and analyze digital evidence from systems and networks.
- Trace unauthorized access and cyber incidents.
- Understand forensic workflows and investigation procedures.
- Reconstruct attack timelines using logs and system artifacts.

□ Capstone Projects Students Will Build

Throughout the program, students will complete real-world cybersecurity projects including:

- Network traffic analysis and intrusion detection system
- Web application penetration testing report
- Secure system hardening project (Linux/Windows)
- Malware behavior analysis simulation
- Vulnerability assessment of a full web application
- Incident response simulation case study

- Final ethical hacking penetration testing project

Career & Industry Opportunities

Graduates will be prepared for:

- Cyber Security Analyst roles
- Ethical Hacker / Penetration Tester (Junior Level)
- SOC (Security Operations Center) Analyst
- Network Security Engineer (Entry Level)
- Incident Response Assistant roles
- IT Security Support Specialist
- Freelance cybersecurity consulting (basic level)
- Further certifications (CEH, CompTIA Security+, etc.)

Program Outcome

At the end of this Cyber Security Program, students will be capable of **identifying vulnerabilities, defending systems, monitoring threats, and securing digital infrastructures** using industry-standard tools and practices—preparing them for entry-level roles in the global cybersecurity industry.

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CYBER SECURITY PROGRAM – 6 MONTHS

After completing this **6-Month Cyber Security Program (24 Weeks Intensive Training)**, students will have practical, hands-on skills in **network security, ethical hacking, system defense, web application security, cloud security, incident response, and digital forensics**.

They will be able to identify, analyze, and defend against real-world cyber threats and operate effectively in entry-level cybersecurity roles.

Students Will Be Able To:

Cybersecurity Fundamentals & System Understanding

- Understand the core principles of Cyber Security including the CIA Triad (Confidentiality, Integrity, Availability).
- Identify different types of cyber threats and attack vectors.
- Understand how attackers exploit systems in real-world scenarios.
- Work confidently with Linux and Windows command-line interfaces.

Operating Systems & Command Line Security

- Navigate and manage systems using Linux and Windows CLI tools.
- Manage users, groups, and file permissions securely.
- Perform system configuration and basic hardening tasks.
- Understand system-level security controls and access restrictions.

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Networking & Protocol Analysis

- Understand how networks operate using IP, DNS, TCP/IP, UDP, and HTTP protocols.
- Identify open ports and services and their potential vulnerabilities.
- Analyze how data moves across systems and networks.
- Detect insecure network configurations and communication risks.

Network Defense & Vulnerability Assessment

Students will be able to:

- Perform network scanning using tools like Nmap.
- Analyze network traffic using Wireshark.
- Identify exposed services and system weaknesses.
- Conduct basic OSINT (Open Source Intelligence) reconnaissance.
- Write basic network security audit reports.

System Hardening & Network Protection

- Configure firewalls and security rules to block unauthorized access.
- Set up VPNs and secure network communication channels.
- Secure operating systems by removing unnecessary privileges.
- Perform workstation security audits and compliance checks.

Web Application Security (Ethical Hacking Skills)

Students will learn to:

- Understand how web applications function (HTTP, sessions, cookies).
- Identify vulnerabilities based on OWASP Top 10.
- Detect and exploit common vulnerabilities such as:
  - SQL Injection
  - Cross-Site Scripting (XSS)
  - Broken Authentication
- Test APIs and hidden directories for security weaknesses.

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Penetration Testing Skills

Students will be able to:

- Perform controlled ethical hacking simulations.
- Use tools like:
  - Nmap
  - Gobuster
- Conduct vulnerability scans and penetration testing on web applications.
- Document findings and propose security patches.

Cryptography & Identity Security

Students will gain skills in:

- Encrypting and securing sensitive data.
- Applying hashing and salting techniques for password security.
- Understanding SSL/TLS certificate deployment.
- Managing authentication and authorization systems.
- Implementing Multi-Factor Authentication (MFA).
- Designing secure access control policies.

Cloud Security Awareness

Students will be able to:

- Understand cloud security architecture (AWS, Azure concepts).
- Secure cloud storage systems and access credentials.
- Identify misconfigurations in cloud environments.
- Apply shared responsibility security models.

Security Monitoring & Incident Response

Students will be able to:

- Monitor systems using logs and security event data.
- Use SIEM tools like Splunk.
- Detect suspicious activity in real-time systems.
- Respond to cyber attacks using structured incident response workflows.
- Write incident reports and recovery documentation.

Digital Forensics & Investigation

Students will be able to:

- Collect and analyze digital evidence from compromised systems.
- Track attacker behavior using logs and system artifacts.
- Perform memory and disk analysis basics.
- Reconstruct cyber attack timelines.
- Support forensic investigations and breach analysis.

Governance, Risk & Compliance (GRC)

- Understand global cybersecurity frameworks such as NIST and ISO 27001.
- Apply data privacy and protection policies.
- Develop organizational security guidelines and best practices.
- Understand compliance and legal security requirements.

Threat Hunting & Defensive Strategy

Students will be able to:

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- Identify phishing attacks and social engineering threats.
- Participate in Blue Team defense simulations.
- Collaborate in incident response teams.
- Hunt for hidden threats inside networks and systems.
- Strengthen organizational cybersecurity posture.

□ Reporting, Analysis & Security Communication

- Translate technical vulnerabilities into executive-level reports.
- Prioritize risks using CVSS scoring systems.
- Create security remediation plans.
- Build professional cybersecurity documentation and dashboards.

□ Capstone Projects Students Will Build

Throughout the program, students will complete **6 enterprise-level cybersecurity projects**, including:

- System Hardening & Network Audit Report
- Network Vulnerability & Traffic Analysis Project
- Web Application Penetration Testing Simulation
- Secure IAM & Cryptography Deployment System
- Incident Response & Digital Forensics Case Study
- Enterprise Security Strategy & SIEM Dashboard Project

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□ Career & Industry Opportunities

Graduates will be prepared for:

- Cyber Security Analyst (Junior Level)
- SOC Analyst (Security Operations Center)
- Ethical Hacker / Penetration Tester (Entry Level)
- Network Security Technician
- Incident Response Assistant
- IT Security Support Specialist
- Cloud Security Trainee Roles
- Freelance cybersecurity consulting (entry level)

Program Outcome

At the end of this 6-Month Cyber Security Program, students will be capable of **identifying vulnerabilities, defending systems, performing ethical hacking, responding to incidents, and securing enterprise environments**, using real-world tools and industry-standard cybersecurity frameworks—preparing them for entry-level global cybersecurity careers.

What Students Will Be Able To Do After the 12-Week / 3-Month Mobile App Development Program

After completing this **Mobile App Development Program**, students will be able to design, build, and deploy modern mobile applications with responsive user interfaces, interactive components, API integration, and local data storage.

They will gain practical skills in building **production-ready mobile UI systems and functional applications** for Android and cross-platform environments.

Mobile UI Design & Layout Engineering

- Understand how mobile applications differ from web systems and how mobile runtimes work.
- Design user interfaces optimized for different screen sizes, resolutions, and device densities.
- Build clean mobile layouts using components such as:
  - Views
  - Text
  - Buttons
  - Images
- Create mobile-friendly UI structures that adapt across devices.
- Apply proper spacing, padding, and alignment rules for mobile screens.

Responsive Mobile Styling & UI Systems

Students will be able to:

- Build responsive layouts using Flexbox-based design systems.
- Create adaptive UI designs that scale across different screen sizes.
- Apply proper mobile design rules such as safe areas and flexible positioning.
- Design visually consistent mobile applications with proper spacing and structure.

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Component-Based UI Development

Students will learn to:

- Use modern UI component libraries such as Material Design principles and Cupertino styles.
- Build reusable UI components for mobile applications.
- Implement scrollable layouts using ListView and ScrollView systems.
- Maintain consistent app-wide themes (colors, fonts, and styles).
- Speed up mobile development using pre-built UI components.

Multi-Screen Mobile App Development

Students will be able to:

- Build multi-screen mobile applications with proper navigation flows.
- Design and implement real-world mobile UI systems like profiles, dashboards, and portfolios.
- Structure mobile apps using modular screen components.
- Complete a full UI-based mobile app project.

Programming Logic for Mobile Development

Students will gain foundational programming skills including:

- Variables, data types, and functions.
- Conditional logic and loops.
- Arrays and data handling.
- Basic Object-Oriented Programming (OOP) concepts.

They will understand how mobile apps process logic and user interactions behind the scenes.

Interactive Mobile App Functionality

Students will be able to:

- Build interactive UI components that respond to user actions.
- Handle gestures such as taps, swipes, and long presses.
- Manage application state (stateful vs stateless components).
- Connect UI behavior to dynamic logic in real time.
- Create smooth, responsive user experiences.

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Navigation & Screen Routing Systems

Students will be able to:

- Build multi-screen navigation systems using stack-based routing.
- Create tab navigation, drawer menus, and modal screens.
- Pass data between different app screens safely.
- Build structured app flows like real production mobile apps.

API Integration & Networking

Students will be able to:

- Connect mobile applications to external servers using HTTP requests.
- Fetch live data from APIs using asynchronous programming (async/await).
- Parse JSON responses into usable app data.
- Handle network errors and loading states gracefully.
- Display real-time data inside mobile applications.

MAWIZ TECHNOLOGIES

Dynamic Data Rendering & Performance Optimization

Students will learn to:

- Render API data dynamically in lists and dashboards.
- Optimize scrolling performance for large datasets.
- Implement loading indicators and shimmer effects.
- Cache images and media for better performance.
- Build smooth user experiences even with unstable network connections.

Local Storage & Offline Data Management

Students will be able to:

- Save data locally using key-value storage systems.
- Use local databases such as SQLite or Hive for structured storage.
- Build offline-first mobile applications.
- Synchronize local and remote data efficiently.
- Maintain persistent user settings and app state.

Capstone Projects Students Will Build

Throughout the program, students will complete **3 real-world mobile application projects**, including:

- Multi-Screen Mobile UI Profile / Portfolio App
- Interactive Productivity App (Task Manager / Budget Tracker)
- API-Driven Mobile Dashboard Application (Weather App / Product Catalog App)

Each project will demonstrate:

- UI/UX design skills
- State management
- API integration
- Navigation systems
- Local storage handling
- Production-ready mobile architecture

Career & Industry Opportunities

Graduates will be prepared for:

- Junior Mobile App Developer roles
- Android / Cross-platform UI Developer
- Frontend Mobile Engineer (Entry Level)
- Freelance mobile app development
- Startup mobile product development teams
- UI/UX implementation roles for mobile systems
- Entry into advanced Flutter / React Native development paths

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Program Outcome

At the end of this 3-Month Mobile App Development Program, students will be capable of building **fully functional, responsive, and data-driven mobile applications**, including multi-screen interfaces, API-powered apps, and offline-capable systems—preparing them for entry-level roles in the mobile development industry and freelance app development careers.

MAWIZ TECHNOLOGIES

📊 DATA ANALYTICS – 3 MONTHS PROGRAM

After completing this **3-Month Data Analytics Program**, students will be able to collect, clean, analyze, visualize, and present data professionally using industry-standard tools such as Excel, Power BI, and Tableau.

They will gain practical skills in business reporting, dashboard creation, spreadsheet analytics, and data storytelling for real-world business environments.

🎯 Students Will Be Able To:

📗 Excel & Spreadsheet Analytics Mastery

Students will be able to:

- Clean and organize messy datasets professionally
- Use advanced Excel functions including:
  - IF statements
  - VLOOKUP / XLOOKUP
  - INDEX & MATCH
  - SUMIFS / COUNTIFS
- Build structured datasets for analysis
- Create Pivot Tables and dynamic reports
- Perform business calculations and KPI tracking
- Automate spreadsheet workflows efficiently

MAWIZ TECHNOLOGIES

📊 Business Intelligence & Dashboard Development

Students will be able to:

- Build interactive dashboards using:
  - Microsoft Power BI
  - Tableau
- Connect multiple data sources into reporting systems
- Create professional visualizations including:
  - Bar charts
  - Pie charts
  - Heatmaps
  - Time-series reports
- Design executive-level business dashboards
- Build automated reporting systems for organizations

📊 Data Visualization & Storytelling

Students will learn to:

- Translate raw data into business insights
- Present trends and performance metrics visually
- Create dashboards that support decision-making
- Structure reports for executives and stakeholders
- Build compelling visual business presentations

Business Reporting & Performance Analytics

Students will be able to:

- Analyze sales, finance, operations, and customer data
- Track KPIs and organizational performance metrics
- Build reporting systems for business intelligence
- Generate actionable recommendations from data findings
- Understand how companies use analytics to make strategic decisions

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Capstone Projects Students Will Build

Students will complete practical projects such as:

- Excel Sales & Operations Dashboard
- Interactive Power BI Reporting System
- Tableau Executive Business Intelligence Dashboard

Projects will demonstrate:

- Data cleaning & transformation
- Dashboard engineering
- KPI reporting
- Business storytelling & visualization

Career & Industry Opportunities

Graduates will be prepared for:

MAWIZ TECHNOLOGIES

- Junior Data Analyst roles
- Business Intelligence Assistant roles
- Reporting & Dashboard Developer positions
- Excel Data Specialist roles
- Power BI / Tableau Reporting roles
- Freelance business reporting services

Program Outcome

At the end of this **3-Month Data Analytics Program**, students will be capable of transforming raw business data into meaningful insights using Excel, Power BI, and Tableau—preparing them for entry-level roles in data analytics, business intelligence, and reporting.

DATA ANALYTICS – 6 MONTHS ADVANCED PROGRAM

After completing this **6-Month Advanced Data Analytics Program**, students will gain advanced, industry-level skills in data analytics, SQL, Python programming, AI-powered analytics, financial modeling, and enterprise business intelligence systems.

They will learn how to analyze large datasets, automate workflows, build predictive models, and create professional dashboards used in modern organizations.

Students Will Be Able To:

Advanced Excel & Financial Modeling

Students will be able to:

- Build advanced financial models and forecasting systems
- Perform budgeting, cash flow, and profit analysis
- Create automated Excel reporting systems
- Design financial dashboards and KPI tracking systems
- Build scenario analysis and business forecasting models

SQL & Database Analytics

Students will be able to:

- Work with relational databases using:
  - MySQL
  - PostgreSQL or similar systems
- Write advanced SQL queries using:
  - JOINS
  - GROUP BY
  - HAVING
  - Subqueries
  - CTEs
- Extract insights from large-scale business datasets
- Perform data aggregation and database reporting
- Build structured analytics pipelines

Python for Data Analytics

Students will learn to use:

- Python for data analysis and automation

They will be able to:

- Clean and process datasets programmatically
- Analyze large datasets efficiently
- Automate repetitive reporting tasks
- Perform statistical analysis and calculations
- Use libraries such as:
  - Pandas
  - NumPy
  - Matplotlib

AI-Powered Data Analytics

Students will be able to:

- Use AI tools to automate analytics workflows
- Generate AI-powered insights from datasets
- Build smart reporting systems using AI copilots
- Apply AI tools for predictive analytics and business intelligence
- Use modern AI-powered analytics platforms for decision-making

MAWIZ TECHNOLOGIES

Advanced Data Visualization & BI Engineering

Students will be able to:

- Build enterprise-grade dashboards using:
  - Microsoft Power BI
  - Tableau
- Create interactive drill-down reports
- Build real-time data monitoring dashboards
- Design executive analytics systems for organizations
- Connect databases directly into BI tools

Business Intelligence & Strategic Reporting

Students will learn to:

- Build complete business intelligence systems
- Track organizational KPIs and performance metrics
- Analyze operational, sales, finance, and customer data
- Present executive-level analytical reports
- Support strategic business decisions using data

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Advanced Capstone Projects Students Will Build

Students will complete advanced real-world projects including:

- Financial Forecasting & KPI Dashboard
- SQL & Python Data Analytics System
- AI-Powered Business Intelligence Dashboard
- Enterprise Reporting & Visualization Platform

Projects will demonstrate:

- SQL querying
- Python analytics
- Financial modeling
- AI-powered reporting
- Advanced dashboard engineering

Career & Industry Opportunities

Graduates will be prepared for:

- Data Analyst roles
- Business Intelligence Analyst positions
- Financial Data Analyst roles
- SQL/Python Data Specialist positions
- Power BI & Tableau Developer roles
- Reporting & Analytics Consultant roles
- Freelance analytics and reporting services

Program Outcome

At the end of this **6-Month Advanced Data Analytics Program**, students will be capable of building advanced analytics systems, financial models, AI-powered reports, and enterprise dashboards using SQL, Python, Excel, Power BI, Tableau, and modern AI analytics tools—preparing them for high-demand careers in data analytics, business intelligence, and strategic decision-making.

MAWIZ TECHNOLOGIES

3-Month Video Editing

After completing this **Video Editing Program**, students will be able to professionally edit videos, create engaging social media content, apply motion effects, manage audio, and produce high-quality visual content for brands, businesses, and personal portfolios.

They will be skilled in using industry-standard editing workflows for **YouTube content, adverts, reels, and cinematic storytelling**.

Video Editing Foundations & Timeline Mastery

Students will be able to:

- Navigate professional editing software such as CapCut and Adobe Premiere Pro.
- Understand video project setup, timelines, and workspace organization.
- Work with aspect ratios for different platforms (16:9, 9:16, square formats).
- Import, organize, and manage media assets efficiently.
- Build structured editing workflows for production environments.

Cuts, Pacing & Storytelling

Students will learn to:

- Trim, cut, and refine raw footage for smooth storytelling.
- Apply jump cuts, ripple edits, and seamless transitions.
- Match A-roll and B-roll footage for professional narrative flow.
- Control pacing to maintain viewer engagement.
- Build coherent video stories from raw clips.

Transitions & Visual Flow

Students will be able to:

- Apply transitions between clips for smooth visual continuity.
- Use overlays and blending modes for creative effects.
- Scale and position video elements on the canvas.
- Maintain professional continuity across scenes.

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Audio Engineering & Sound Design

Students will learn to:

- Balance voice and background music levels.
- Apply audio fades, noise reduction, and sound cleanup.
- Sync audio with visual cuts and music beats.
- Improve overall video clarity and engagement through sound design.

Text, Captions & Motion Typography

Students will be able to:

- Create dynamic captions and subtitles automatically or manually.
- Design professional lower-thirds and title screens.
- Apply animated text effects for engagement.
- Use kinetic typography for storytelling impact.

Motion Graphics & Animation

Students will learn to:

- Animate videos using keyframes (position, scale, opacity).
- Apply motion effects and speed ramping techniques.
- Create smooth transitions between visual elements.
- Add energy and motion to static video content.

Advanced Visual Effects (VFX)

Students will be able to:

- Perform green screen removal (chroma keying).
- Mask and isolate objects in video footage.
- Combine multiple layers for composite scenes.
- Create cinematic-style visual enhancements.

Color Grading & Visual Styling

Students will learn to:

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- Adjust exposure, contrast, and white balance.
- Use color correction tools for consistency.
- Apply LUTs (color presets) for cinematic styles.
- Create visual moods that match storytelling tone.

Social Media Content Creation

Students will be able to:

- Create short-form content for platforms like TikTok, Instagram Reels, and YouTube Shorts.
- Produce high-retention viral videos.
- Optimize videos for mobile-first viewing.
- Edit fast-paced engaging promotional content.

Exporting & Professional Delivery

Students will learn to:

- Export videos in correct formats (.mp4, .mov).
- Understand frame rates (24fps, 30fps, 60fps).
- Optimize bitrate and resolution for different platforms.
- Prepare professional video portfolios for clients and employers.

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Capstone Projects Students Will Build

Throughout the program, students will complete **3 professional video projects**, including:

- Brand Story Promotional Video (2-minute commercial edit)
- Viral Social Media Reel / Short Video (60-second high engagement edit)
- Final Professional Showreel Portfolio (cinematic compilation of best work)

Each project demonstrates:

- Storytelling ability
- Editing precision
- Audio-visual synchronization
- Motion graphics skills
- Professional export delivery

Career & Industry Opportunities

Graduates will be prepared for:

- Video Editor roles (Junior Level)
- Social Media Content Creator
- Motion Graphics Designer (Entry Level)
- YouTube Video Editor
- Freelance video editing services
- Advertising and marketing content production
- Brand media production assistant roles

Program Outcome

At the end of this 3-Month Video Editing Program, students will be capable of producing **professional-quality videos for brands, social media, and digital marketing campaigns**, using industry-standard editing techniques, motion graphics, audio design, and visual storytelling skills.

MAWIZ TECHNOLOGIES

AI Content Creation Program – 1 MONTH

After completing this **4-Week Intensive AI Content Creation Program**, students will be able to effectively use modern artificial intelligence tools to generate professional-grade text, images, videos, and audio content for marketing, branding, and digital media production.

They will gain practical skills in **AI-powered content creation, automation workflows, and multimedia generation pipelines**.

AI Text Generation & Copywriting

Students will be able to:

- Understand how AI tools like ChatGPT and similar platforms work for content generation.
- Apply prompt engineering techniques to generate high-quality outputs.
- Write professional content including:
  - Blog articles
  - Social media captions
  - Marketing copy
  - Advertisements and scripts
- Structure prompts that produce consistent and optimized results.
- Improve content tone, style, and clarity using AI refinement workflows.

AI Image Generation & Visual Design

Students will learn to:

- Generate professional images using tools like:
  - Midjourney
  - DALL·E
- Create marketing visuals, posters, and brand graphics from text prompts.
- Control image style, composition, aspect ratio, and variations.
- Produce high-quality digital artwork without traditional design tools.
- Build consistent visual branding using AI-assisted design systems.

AI Video & Audio Content Creation

Students will be able to:

- Generate AI-assisted video content using tools such as:
  - Runway ML
- Create short video clips from text prompts.
- Produce AI voiceovers and synthetic speech content.
- Understand AI avatar creation and talking head generation workflows.

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- Combine audio, video, and text into multimedia outputs.

AI Content Automation & Workflow Engineering

Students will be able to:

- Combine multiple AI tools into a single production pipeline.
- Automate content creation for marketing campaigns.
- Generate complete brand packages (text, image, video, audio).
- Build consistent multi-platform content strategies using AI.
- Reduce manual design and production time significantly.

Capstone Project Students Will Build

Throughout the program, students will complete one major real-world project:

□ Automated Multi-Media Marketing Campaign

Students will:

- Use AI tools to generate complete brand content systems.
- Produce:
  - Written marketing copy
  - AI-generated images and posters
  - Short promotional videos
  - AI voiceovers and narration
- Combine outputs into a full digital marketing campaign package.
- Present a fully automated AI-powered brand promotion system.

Career & Industry Opportunities

Graduates will be prepared for:

- AI Content Creator roles
- Digital Marketing Assistant roles
- Social Media Content Specialist
- Freelance AI content generation services
- Brand marketing support roles
- Creative automation specialist positions
- Startup content production teams

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Program Outcome

At the end of this 1-Month AI Content Creation Program, students will be capable of using modern AI tools to **generate professional-quality multimedia content (text, images, video, and audio)** and build automated content pipelines for marketing, branding, and digital media production—positioning them for opportunities in the fast-growing AI creative economy.

ADVANCED AI CONTENT CREATION PROGRAM (3 MONTHS)

After completing this program, students will be fully equipped to operate as modern digital creators who can design, edit, and automate professional-quality content using both traditional tools and advanced AI systems.

WHAT STUDENTS WILL BE ABLE TO DO

□ Professional Graphic Design & Visual Content Creation

Students will be able to design high-quality visuals such as:

- Flyers, posters, banners, and social media graphics
- Branded marketing materials for businesses
- Clean, engaging visual layouts for online content

They will also be able to generate AI-powered images using tools like:

- Midjourney
- DALL·E

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□ Professional Video Editing & Content Production

Students will be able to:

- Edit professional videos for social media, adverts, and branding
- Cut, trim, and structure video stories with proper pacing
- Add transitions, effects, subtitles, and animations
- Produce short-form viral content (Reels, TikTok, YouTube Shorts)
- Export high-quality videos for different platforms

□ AI-Powered Content Creation & Automation

Students will be able to use AI tools to:

- Generate written content (ads, captions, blogs, scripts) using ChatGPT
- Create AI-generated visuals, posters, and marketing designs
- Produce AI voiceovers and synthetic narration
- Generate AI video content using tools like Runway ML
- Combine multiple AI tools into full content production workflows

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□ Social Media & Digital Marketing Content Creation

Students will be able to:

- Create engaging content for Instagram, TikTok, Facebook, and YouTube
- Design content that attracts attention and drives engagement
- Build complete brand content packages for businesses
- Apply storytelling techniques for marketing and promotion

□ Branding & Creative Strategy Skills

Students will be able to:

- Develop brand identities using colors, typography, and design systems
- Create consistent visual branding across platforms
- Understand content marketing principles
- Plan and structure digital marketing campaigns

□ Audio, Motion & Advanced Editing Skills

Students will be able to:

- Add and edit background music and sound effects
- Create subtitles, captions, and animated text effects
- Apply motion graphics, transitions, and visual effects
- Enhance video quality using color correction and grading

□ Freelancing & Career Readiness

Students will be prepared for:

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- Freelance content creation jobs
- Social media management roles
- Video editing services for brands and influencers
- Digital marketing assistant positions
- AI content creation services for businesses
- Remote creative work opportunities

FINAL OUTCOME

At the end of this program, students will be capable of independently producing **professional-level digital content (graphics, videos, and AI-generated media)** and building complete marketing campaigns for individuals, brands, and businesses—positioning them as **modern AI-powered content creators in the digital economy**.

MAWIZ TECHNOLOGIES

ARTIFICIAL INTELLIGENCE & MACHINE LEARNING PROGRAM

(3 MONTHS)

After completing this program, students will have practical, hands-on skills in **Artificial Intelligence, Machine Learning, Data Science, and Model Deployment**, enabling them to build intelligent systems that learn from data and make predictions.

Core AI & Python Programming Skills

Students will be able to:

- Understand the difference between **AI, Machine Learning, and Deep Learning**
- Write Python programs for data and AI tasks using:
  - variables, loops, lists
  - NumPy for array operations
- Work confidently with structured data and computational logic
- Build a strong foundation in programming for AI systems

Data Science & Data Preparation Skills

Students will be able to:

- Load, clean, and manipulate datasets using:
  - Pandas
- Handle missing data, duplicates, and inconsistent values
- Perform data filtering, grouping, and aggregation
- Engineer useful features for machine learning models
- Prepare raw datasets into AI-ready formats

Data Analysis & Visualization

Students will learn to:

- Visualize datasets using:
  - Matplotlib
  - Seaborn
- Understand statistical concepts such as:
  - mean, median, variance, standard deviation
- Interpret patterns, trends, and relationships in data
- Apply basic linear algebra concepts (vectors and matrices)

MAWIZ TECHNOLOGIES

Machine Learning (Core Algorithms)

Students will be able to:

- Build predictive models using supervised learning techniques:
  - Linear Regression (prediction of numeric values)
  - Logistic Regression (classification tasks)
  - Decision Trees (rule-based predictions)
- Evaluate model performance using metrics such as:
  - Accuracy, Precision, Recall, F1 Score, R^2
- Train and test models using real datasets

Unsupervised Learning & Data Grouping

Students will be able to:

- Apply clustering techniques such as K-Means
- Group unlabeled datasets into meaningful clusters
- Perform customer segmentation and pattern discovery

- Reduce dataset complexity using dimensionality reduction techniques

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Deep Learning & Neural Networks

Students will gain understanding of:

- Artificial Neural Networks (ANNs)
- Activation functions like ReLU and Sigmoid
- Forward and backward propagation
- How deep learning models learn from data patterns

Computer Vision & Natural Language Processing (NLP)

Students will be able to:

- Process and analyze images using Convolutional Neural Networks (CNNs)
- Build basic image classification systems
- Perform text analysis and sentiment detection
- Understand how AI processes human language and visual data

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Model Deployment & AI Applications

Students will be able to:

- Save and load trained models using tools like Joblib or Pickle
- Build simple AI applications that run trained models
- Understand Large Language Models (LLMs) and generative AI systems
- Connect machine learning models to real-world applications

Capstone Projects Students Will Build

Throughout the program, students will complete **3 real-world AI projects**, including:

- Exploratory Data Analysis & Data Cleaning Project
- Machine Learning Prediction System (Regression or Classification Model)
- Production-Ready AI Application (Image Classifier or Sentiment Analyzer)

These projects will demonstrate:

- Data cleaning and preprocessing
- Model building and evaluation
- AI prediction systems
- Real-world deployment readiness

CAREER & INDUSTRY OPPORTUNITIES

Graduates will be prepared for:

- Junior Data Scientist roles
- Machine Learning Assistant / Intern positions
- AI Developer (Entry Level)
- Data Analyst (AI-focused track)
- Freelance AI/ML project developer
- Research assistant roles in AI labs or startups

PROGRAM OUTCOME

At the end of this **12-Week Artificial Intelligence & Machine Learning Program**, students will be capable of **building intelligent systems that analyze data, make predictions, and power real-world AI applications**, including machine learning models, deep learning systems, and AI-driven software solutions—preparing them for careers in one of the fastest-growing technology fields in the world.

MAWIZ TECHNOLOGIES

AI AUTOMATION – 3 MONTHS

After completing this program, students will be able to design, build, and deploy **fully automated digital systems, AI-powered workflows, and multi-platform integrations** that connect apps, databases, AI models, and communication channels without manual intervention.

They will graduate as **Automation Engineers capable of building intelligent business systems, AI agents, and workflow pipelines used in modern startups and enterprises**.

WHAT STUDENTS WILL BE ABLE TO DO

Workflow Automation & System Integration

Students will be able to:

- Connect multiple web applications using automation platforms like:
  - Zapier
  - Make.com
- Build automated workflows using triggers, actions, and data mapping
- Use APIs and webhooks to transfer data between systems
- Design end-to-end automated business processes without coding complexity

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Advanced Automation Engineering (No-Code + Code Hybrid)

Students will be able to:

- Build custom automation systems using:
  - n8n
- Deploy self-hosted automation servers using Docker environments
- Write custom logic using Python and JavaScript nodes
- Design scalable automation pipelines for real-world systems

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Data Automation & Smart Database Systems

Students will learn to:

- Work with structured data systems such as:
  - Airtable
  - PostgreSQL
  - Google Sheets

- Automate data cleaning, transformation, and synchronization
- Handle JSON APIs, nested data structures, and payload processing
- Build automated data pipelines that update in real-time

AI Agent & Intelligent Automation Systems

Students will be able to:

- Connect AI models (LLMs) into automation workflows using:
  - OpenAI / Anthropic APIs
- Build AI systems that:
  - Generate emails automatically
  - Perform sentiment analysis
  - Classify and route data intelligently
- Design decision-based automation flows with conditional logic

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Web Scraping & Data Extraction Systems

Students will be able to:

- Extract data from websites using scraping techniques
- Automate browser actions like form filling and clicks
- Collect structured data from public web sources
- Build automated data harvesting systems for research and business intelligence

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Document, Media & Business Automation

Students will be able to:

- Automatically generate PDFs, invoices, and reports
- Create marketing assets using AI image generation APIs
- Build automated document workflows (contracts, receipts, letters)
- Integrate e-signature systems like DocuSign / SignWell
- Reduce manual administrative tasks through automation pipelines

□ AI Chatbots, RAG Systems & Knowledge Automation

Students will be able to:

- Build intelligent chatbots using:
  - Retrieval-Augmented Generation (RAG)
- Connect internal company documents to AI systems

- Create knowledge-based assistants that answer business questions
- Design vector-based search systems for AI memory retrieval

Multi-Channel Communication & Voice Bots

Students will be able to:

- Build AI-powered communication systems across:
  - WhatsApp
  - Telegram
  - SMS
- Deploy voice AI agents using platforms like Vapi / Bland AI
- Create bots that:
  - Book appointments
  - Respond to customers
  - Pull data from databases in real time

Security, Monitoring & System Reliability

Students will be able to:

- Secure automation workflows using encrypted credentials
- Monitor system logs and execution flows
- Build error-handling and fallback systems
- Optimize automation performance and reduce operational costs
- Ensure system uptime and reliability for production use

Capstone Projects Students Will Build

Throughout the program, students will complete **3 advanced automation systems**, including:

- Multi-Platform Lead Capture & Automation System
- AI Content Scraping & Repurposing Engine
- Enterprise AI Customer Support System (Chat + Voice + CRM Integration)

Each project demonstrates:

- API integration
- AI-powered decision-making
- Database automation

MAWIZ TECHNOLOGIES

- Multi-platform orchestration
- Real-world business workflow simulation

CAREER & INDUSTRY OPPORTUNITIES

Graduates will be prepared for:

- Automation Engineer (Entry Level)
- AI Workflow Developer
- No-Code / Low-Code Solution Architect
- CRM Automation Specialist
- AI Chatbot Developer
- Business Process Automation Consultant
- Freelance Automation Systems Builder

PROGRAM OUTCOME

At the end of this **12-Week Cloud Automation & AI Workflow Engineering Program**, students will be capable of building **fully automated intelligent systems that connect apps, AI models, databases, and communication platforms**, enabling businesses to operate faster, smarter, and with minimal manual effort—positioning them for careers in the future of AI-powered automation and digital transformation.

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