

Mohamed Mowina

AI Developer | Data Scientist

Email: mohammed-mowina@outlook.com | Phone: +20 100 861 0206

LinkedIn: [linkedin.com/in/mohamed-mowina-ai](https://www.linkedin.com/in/mohamed-mowina-ai) | GitHub: github.com/M-Mowina

Summary

AI Developer with experience building and deploying machine learning, NLP, and LLM-powered applications. Strong in Python, PyTorch, LangChain, and data-driven problem solving. Delivered real-world AI tools in cybersecurity, automation, and analytics using modern frameworks like Hugging Face, OpenAI, and LangGraph.

Education

B.Sc. in Computer Science and Artificial Intelligence

MTI University – Cairo, Egypt | Graduation: July 2024

Professional Experience

AI in Cybersecurity Developer Trainee

NTI – Smart Village, Cairo, Egypt | Feb 2025 – June 2025

- Built machine learning models for cybersecurity applications.
- Collaborated with team members to implement secure coding practices.

Instructor – Python & AI

Black Horse Courses – Alexandria, Egypt | Oct 2024 – Mar 2025

- Delivered lessons on AI fundamentals and Python programming.
- Created interactive notebooks and exercises to reinforce key concepts.

Freelance AI Developer

Remote | People Per Hour | Aug 2024 – Present

- Built and deployed customized AI solutions for clients, including predictive analytics and classification models.

Projects

TalentTalk AI interview system ([GitHub](#))

- Built a multi-agent AI-powered voice interview system customizable per role/company, with automated question generation, speech recognition, real-time feedback, and recruiter reports.
- Integrated Google-web-speech for ASR, gemini-2.5-flash for dynamic question generation and evaluation, and a modular agent architecture using LangGraph Agents.

ResearchScope AI ([Live Demo](#) | [Video Demo](#) | [GitHub](#))

- Built ResearchScope AI, a multi-agent system using CrewAI and Gemini 2.5 flash for in-depth project analysis, research extraction, and requirement validation.

SIEM AI Assistant ([GitHub](#))

- Developed an AI-powered SOC tool that retrieves and analyzes logs via Splunk API, visualizes events, and scans frequent IPs using VirusTotal.
- Used a RAG system (Gemini 2.0 Flash + MITRE ATT&CK knowledge base) to explain threat patterns and enhance analyst insights.
- Integrated ResNet50 for malware classification from byte-to-image conversion and fine-tuned DistilBERT for phishing detection. ([Hugging Face](#))

NetFlow-Based Intrusion Detection System ([Kaggle](#) | [GitHub](#))

- Developed NetFlow attack detector: 96% anomaly detection (One-Class SVM) → 99% attack classification (Random Forest/SVM).
- Reduced false positives with intelligent two-stage threat analysis for enhanced network defense.

Automobile Sales Analysis Dashboard ([Video Demo](#) | [GitHub](#))

- Built interactive Dash + Plotly dashboard to visualize sales trends.

Autism Detection Website ([Github](#))

- Developed Flask app using image classification and questionnaire-based deep learning models for early autism detection in kids.

Social Media Sentiment Analysis ([Video Demo](#) | [Github](#))

- Built NLP-powered model with Keras and three large datasets combined to make an app integrated with Flask for sentiment classification.
- Used Google api to scrape Youtube comments and analyze viewer's sentiments of videos.

Technical Skills

Programming Languages: Python, SQL, C++

AI & ML: LLMs, LangGraph, PyTorch, TensorFlow, Keras, Scikit-learn, CrewAI, Lime, SHAP

Data Analysis: Power BI, Plotly, Dash, Matplotlib, Seaborn

Web & APIs: Flask, FastApi, Requests, BeautifulSoup

Databases: SQLite3, SSMS, ChromaDB, Pinecone, FIASS

NLP: Hugging Face, NLTK, SpaCy, LangChain

Computer Vision: OpenCV (cv2), YOLO

Certifications

IBM Data Science Professional Certificate (V3) – IBM

AI Certification (72 Hours) – ITI

Associate AI Engineer for Data Scientists – DataCamp

DotPy Data Science Certification (75 Hours) – DotPy