Mostafa Kamal Mohamed
AI & Data Science Graduate | Machine Learning Enthusiast
Cairo | +20 1019845980 | mostafaalnaqib2@gmail.com
LinkedIn : https://www.linkedin.com/in/mostafakamalalnaqib | GitHub : https://github.com/Naqib1 |
Kaggle : https://www.kaggle.com/mostafaelnaqib

Summary

Motivated and results-driven IT graduate with practical training through the Digital Egypt Pioneers Initiative. Strong hands-on experience in Machine Learning, Deep Learning, and Data Analysis with real-world projects in signature verification, churn prediction, and academic analytics. Led multiple AI-focused teams including the award-winning InkSentinel project. Skilled in Python, PyTorch, LangChain, SQL, and deploying AI models using TorchScript and MLflow. Passionate about scalable AI systems and intelligent assistants powered by LLMs.

Education

BSc in Information Technology
Egyptian E-Learning University (EELU), 2021 – 2025
Focused on Artificial Intelligence, Machine Learning, and Data Science through personal specialization and self-driven projects

Certifications:
• AI & Data Science Track – Digital Egypt Pioneers Initiative (Oct 2024 – May 2025)
• IT Specialist – Device Configuration & Management (Jul – Sep 2024)
• CCNA: Introduction to Networks – Cisco Networking Academy (Feb 2023 – Jan 2024)

Projects

InkSentinel – AI Signature Verification System
Graduation Project | Aug 2024 – Jun 2025
Mobile-based solution to detect forged handwritten signatures using Siamese Networks with EfficientNet. - Achieved 90%+ accuracy; improved mobile inference time by 30% using TorchScript. - Integrated chatbot with LLaMA 3.2 to explain forgery types and provide education. - Awarded 1st Place at GDC Assiut 2024. - Available on GitHub .

Customer Churn Prediction + AI Chatbot
DEPI Project | Feb – May 2025
AI system for predicting customer churn with a support chatbot. - Trained Random Forest model (84% accuracy) on 7,000+ customer records. - Built chatbot with LangChain + LLaMA 3 using RAG pipelines. - Automated retraining with MLflow; reduced manual analysis workload by 40%. -Available on GitHub & Kaggle .

Online Library System
Mini Project | Jan 2024 – Feb 2025

Web-based system for managing books, users, and wishlists using SQL and Streamlit. - Managed over 300 book records; built login, search, and wishlist features. -Available on GitHub .

Student Performance Analysis
Mini Project | Feb 2025
Explored factors influencing student scores using EDA and correlation analysis. - Analyzed data from 1,000+ students with visualizations in seaborn and matplotlib.- Available on GitHub & Kaggle .

Experience

AI & Data Science Trainee
Digital Egypt Pioneers Initiative (DEPI), Oct 2024 – May 2025
- Built churn prediction system and LLM chatbot using LangChain. - Led graduation team project from model development to deployment.

IT Specialist Intern (Remote)
Device Management Track, Jul – Sep 2024
- Trained in device setup, system configuration, and infrastructure basics.

IT Trainee (Remote)
Cisco Networking Academy, Feb 2023 – Jan 2024
- Completed CCNA fundamentals in networking, routing, and IP configuration.

Technical Skills

Languages & Tools: Python, Git, Jupyter, Colab, VS Code, Streamlit
AI & ML: scikit-learn, PyTorch, MLflow, TorchScript, Random Forest, Siamese Networks
Data Analysis: pandas, NumPy, seaborn, matplotlib, Excel
Databases: SQLite
LLMs & Chatbots: LangChain, LLaMA 3.2, RAG, Retrieval QA
Deployment: Flask (APIs), model versioning, mobile inference

Leadership & Volunteering

Soft Skills: Team Leadership • Problem Solving • Adaptability • Communication • Time Management • Attention to Detail - Team Leader – InkSentinel Project (GDC Assiut Winner) - Group Leader – Team Leader – DEPI Capstone Project & Team (2025)- Liaised with EYouth & Ministry of Communications to support project delivery