




# Moaz Nasser Abdelaziz

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## EDUCATION

Bachelor of Computers and Artificial Intelligence

Oct 2020 - Jul 2024

Helwan University

GPA: 3.36 , With Honor degree

### GraduationProject: Microsoft Malware Prediction Using Machine Learning

- Analyzed the Microsoft Malware Prediction Challenge dataset (9M records) using advanced preprocessing and machine learning models like LightGBM and CatBoost, boosting accuracy from 68% to 81%. Secured AXA sponsorship for 500 servers, earning an A+ for the graduation project Deployed the solution using FlaskAPI. [Click here to view the project video for a detailed demonstration.](#)

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## WORK EXPERIENCE

Artificial Intelligence Trainee

Nov 2024 - present

National Telecommunication Institute (NTI) – Cairo, Egypt

Undergoing a 4-month intensive program covering AI concepts, machine learning, deep learning, Computer Vision , NLP, Data Engineering , Reinforcement Learning , MLOps , big data analytics, and career development skills through hands-on projects and industry-aligned training.

Software Engineer Intern

Aug 2023 - Oct 2023

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- Gained Insight into Software Development Lifecycle: Participated in comprehensive training on the software development lifecycle, from initial design to final deployment, providing a solid foundation in software engineering principles.
- Learned and Applied Virtualization Technology: Acquired practical knowledge in virtualization technology and Oracle Forms and Reports, enhancing technical skills in managing and deploying virtual environments.

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## SELECTED PROJECTS

### -AI driven furniture recommendation ( Final Project @NTI)

- Leveraged LLM prompt engineering and RAG to analyze user conversations and recommend optimal furniture from our database or, if declined, via (CrewAI Agents) web scraping and searching(TavilyClienttool).
- Integrated AR for real-time 3D furniture visualization and personalized recommendations, including complementary pieces, within a mobile app(Kotlin).
- We are working on fine-tuning the model to enhance performance .

### -Customer Churn Prediction for Banking System

- Implemented a machine learning(SVM,logistic regression) model to predict customer churn, leveraging various algorithms to identify at-risk customers and enhance retention strategies.

### -Jane Street Real-Time Market Data Forecasting:

- Participated in a Kaggle competition forecasting real-time market data for Jane Street, achieving a top 15% ranking. Developed a ResNet-based architecture adapted for time series data.

### -Book-Based LLM-Powered Telegram Chatbot(LangChain)

- Built a RAG pipeline using LangChain to retrieve text from books and provide context-aware responses via an LLM-integrated Telegram chatbot. Enhanced accuracy with prompt engineering for dynamic user interaction.

### **-Text Similarity Project Using Siamese Architecture**

- Developed a text similarity model using Siamese neural networks to measure the semantic similarity between text pairs, achieving high performance in NLP tasks.

### **-YOLO v8 Object Detection GUI Application**

- Developed an interactive Python-based application leveraging YOLO v8, OpenCV, and Tkinter for real-time object detection. Integrated webcam and video file processing with dynamic filtering of object classes, enabling users to visualize detection results through an intuitive GUI.

### **-Power BI Sales Analysis**

- Designed an interactive dashboard to visualize sales trends, track key metrics, and derive actionable insights for decision-making.

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## **RELATED COURSES**

- **NLP: Probabilistic models, sequence modeling, attention mechanisms (DeepLearning.AI).**
- **Advanced AI: Large Language Models (LLMs) and Retrieval-Augmented Generation (RAG).**
- **Customization Techniques: Fine-tuning & prompt engineering for domain-specific applications.**
- **Foundations: AWS Academy Machine Learning Foundations; Exploratory Data Analysis; Numerical Optimization.**
- **Pattern recognition, PCA, supervised/unsupervised machine learning, time series analysis.**
- **Deep Learning: CNNs, RNNs (and variants), GANs; techniques for improving deep neural networks.**
- **Cloud & AI Platforms: Cloud Computing for AI (HCIA certified).**
- **AI Agents: Concepts for building autonomous AI systems.(DeepLearning.AI)**

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## **SKILLS**

- **Programming Languages :** Python, C/C++ ,Java , HTML/CSS
- **Data Engineering Skills:** SQL, Data Modeling ,ETL using SSIS ,SSAS , spark
- **Libraries,platforms:** Numpy ,Pandas ,scikit-learn ,TensorFlow ,openCV, Flask API
- **DataVisualization:** Visualization using PowerBI , Looker Studio, Python Libraries (Matplotlib-seaborn)
- **Software System Engineering:** Solid principles ,OOP, Data structure ,OCL, Clean Code,...)
- **Awards/Activities:** **AWS DeepRacer(TOP 10)** , Skilled in problem solving (i participated in ICPC),BlackHat MEA CTF qualified to final, IEEE Victories CTF
- **Technical Tools & Platforms:** Docker, and Postman; experienced in using HuggingFace for deploying and fine-tuning various pretrained models (e.g., YOLO),Familiar with Linux OS.

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## **PERSONAL INFO**

- Military service Status:Exempted