Ahmed Mohamed Kamel

AI Engineer

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SUMMARY

Seeking a position as a AI Engineer where I can leverage my skills in machine learning, data science, computer vision, NLP, and Python programming to derive meaningful insights and drive data-informed decisions. I aim to contribute to the organization's success by applying analytical techniques and statistical modeling, while continuing to grow professionally in the field of AI.

EXPERIENCE

Machine Learning For Data Analysis, Digital Egypt Youth (Creativa Innovation Banha)
April 2025 – Present

- Built an end-to-end machine learning pipeline to predict the risk of heart attacks using clinical data.
- Performed data preprocessing, exploratory data analysis (EDA), feature selection, and model evaluation using various classification algorithms.
- Optimized model performance through hyperparameter tuning and cross-validation techniques.
- Successfully deployed the trained model using **Streamlit**, creating an interactive web application that allows users to input health metrics and receive real-time predictions.

Machine Learning Intern, Cellula Technology **Credential**
July 2024 – August 2024

- Completed a machine learning internship focusing on end-to-end regression and classification tasks.
- Successfully deployed two projects: a classification model for '**Hotel Reservation**' using **Flask**, and a regression model for '**Uber Rides**' using **Django**.

EDUCATION

Madina Higher Institute. Giza, Egypt.
Bachelor Of Engineering in Electronics and Communications 2020- 2025 with a cumulative 3.55 GPA.

PROJECTS

Graduation Project Project

Autonomous self-driving vehicle using V2X Communication (V2V and V2I) Developed a vision system for a self-driving car tailored for Egyptian streets as part of my graduation project Collected local street data and integrated it with online datasets.
Applied object detection, image processing to create five AI models capable of making accurate decisions in various scenarios.
Tested these models on Egyptian streets for validation.
Utilized Raspberry Pi 5B and STM32F103C8T6 for embedded control, integrated GPS for navigation and communication.

Hotel Reservation Project | Demo

- Developed and deployed a classification model for predicting hotel reservations using the Flask framework.
- The project involved data preprocessing, feature engineering, model training, and hyperparameter tuning to achieve optimal accuracy.
- The final model was integrated into a user-friendly web interface for real-time predictions.

Uber Rides Project | Demo

- Developed and deployed a regression model for predicting Uber ride costs using the Django framework.
- The project involved comprehensive data analysis, feature selection, model training, and hyperparameter optimization.
- The model was deployed with a web interface, allowing users to input ride details and receive cost predictions in real-time

Sentiment analysis by ML Project | Demo

- Developed an end-to-end sentiment analysis system using a Decision Tree algorithm, achieving robust classification accuracy.
- Employed advanced data preprocessing and feature engineering techniques to train and optimize the model, and deployed the solution on a Streamlit web application for real-time sentiment evaluation and interactive visualization

COURSE WORK

Machine Learning Course, Orange Digital Center **Credential**
Dec 2024 (24 hours) — Grade: 98%

- Completed an intensive machine learning training covering Python for Data Analysis, Deep Learning, NLP, Feature Engineering, Data Preprocessing, and Applied AI Projects
- Developed and deployed two end-to-end ML applications using Streamlit: **Sentiment Analysis NLP App** using a Decision Tree classifier, **Facial Expression Recognition App** using an Artificial Neural Network (CNN).
- Gained hands-on experience in model building, evaluation, and real-time deployment

AI Professional Program, NTI & ITIDA **Credential**
August 2023 – September 2023

- Completed a 120 hours training, including 90 hours of technical training in: Mathematics for AI, Python Programming, AI Fundamentals, Machine Learning & Deep Learning
- Python PCAP 30 hours **Credential**
- Gained 30 hours of professional development in: Communication, Interview & Presentation Skills, Leadership, Teamwork, Time Management, and Decision-Making, Freelancing, Information Security & Privacy Awareness.

SKILLS

Languages: Python, C++, SQL.
Machine Learning and AI: scikit-learn ,TensorFlow , Keras , Pytorch, XGBoost , OpenCV, YOLO , nltk
Data Manipulation and Visualization: Pandas, Numpy , Matplotlib, seaborn.
Tools and Frameworks: Git, GitHub, Linux, MATLAB, Flask, Django, Streamlit.
Soft Skills: Communication and Presentation skills, Problem-Solving, Adaptability, Attention to Detail, Teamwork, Time Management, and Leadership.

LANGUAGES

Arabic – Native English