Mahmoud Elmasry

AI Engineer

✉ m.masry4122@gmail.com 📞 +201554097702 📍 Alexandria, Egypt (Willing to relocate)

in Mahmoud Elmasry ○ M-Masry4122 ⚑ Egyptian

Profile

AI Engineer and Machine Learning Specialist with a strong background in machine learning, deep learning, computer vision, and natural language processing (NLP), experienced in designing and deploying AI solutions for real-world applications, using **Python**, **TensorFlow**, **PyTorch**, and **OpenCV**. Proficient in data manipulation, data visualization, and cloud-based data engineering.

Education

9-Month Professional Diploma in AI and ML   2023/10 – 2024/07
Information Technology Institute (ITI), MCIT   Alexandria, Egypt

BCS. in Computers and Artificial Intelligence   2018 – 2022
Cairo University   Cairo, Egypt

Projects

Arabic Dialect Classification (ITI)
- Developed an end-to-end machine learning solution for Arabic Dialect Classification using Python and NLP techniques to analyze Twitter data, enhancing text-based AI capabilities for language processing.
- Deployed the model using **Flask**.

CineMate Movie Recommender System (ITI)
- Developed a recommendation system for the MovieLens dataset, containing User-Based Recommendations using **Deep Factorization Machine** & **Neural Collaborative Filtering**.
- Developed another Item-Based Recommendation system using **Cosine Similarity**.
- Deployed the model using **Dash**.

Fly Eye Image Caption Generator (ITI)
- Created a model that generates descriptive captions for images using Advanced deep learning techniques (**DenseNet201**, **LSTM,** and **Residual Blocks**) using **TensorFlow**.

RASA Framework AI-driven Academic Assistant (Graduation Project)
Cairo University

- Utilized **RASA Framework** to create an AI-driven Chatbot to help academic students Efficiently & Effectively finish their courses as fast as possible.

Head Pose Detection (ITI)
- Head Pose Estimation utilizing Machine learning to detect facial landmarks and predict Roll, Pitch, and Yaw from images and videos using **Mediapipe**, **XGBoost**, **OpenCV**, and **Scikit-learn**.

IMDB Analysis (ITI)
- End-to-end IMDb analysis pipeline, including Web Scraping, Data Exploration & Analysis, and creating a Dashboard & Recommendation System Using **Plotly Dash**, **Pandas**, and **Scikit-learn**.
- Published Dashboard on the official **Plotly** ↗ website.

Professional Experience

Data Engineer
Abdulmalek Al Esmail Investment Group - AEIG

2023 – 2024
Riyadh, Saudi Arabia (Remote)

- Implemented a Data Pipeline & ETL to develop a cloud-based data warehouse for real-time analytics.
- Brands: Caneles, Chezzz, Tebsi, Bugshan

Oracle Developer
Egyptian Naval Forces - Troop Command

2022 – 2023
Alexandria, Egypt

- Developed and Maintained Oracle 6i Forms & Reports using SQL & PL/SQL.
- Managing and Backing up Servers and Databases.

Billing & Payments Representative.
Vodafone UK (VOIS)

2022 – 2022
London, England (Remote)

- Analyze billing data to identify trends and potential issues.
- Investigate and resolve complex billing issues and escalations.
- Coordinate with other departments to address and resolve customer concerns.

Technical Skills

Machine Learning & Artificial Intelligence
Tensorflow, Pytorch, OpenCV, Scikit-learn, Pandas, Numpy.

Deep Learning
NLP & Computer Vision, Spacy, Surprise.

Robotic Process Automation (RPA)
UiPath, Microsoft Power Automate.

Database Management
ETL, SQL, PL/SQL NoSQL, Data Pipelines, Cloud Computing.

Programming Languages
Python (Primary), C++, C, Java

Data Visualization
Matplotlib, Seaborn, Power BI, Plotly, Dash.

Big Data
Hadoop, Spark & Pyspark, Hive, Kafka.

Recommender Systems

Other
Generative AI, Transformers, LLMS, GANS, Data Engineering, DS & Algorithms, OOP, Google Cloud, AWS, Agile, Git & GitHub, Linux, Web Scrapping, Agile.

Courses

Python ⬀
HackerRank

Pandas ⬀
Kaggle

AWS Cloud Foundations ⬀
AWS Academy

Red Hat System Admin ⬀
Information Institute: Mahara Tech

Data Science & Analytics ⬀
IBM

Database Fundamentals ⬀
Information Institute: Mahara Tech

Data Cleaning ⬀
Kaggle

Data Visualization ⬀
Kaggle

Generative AI ⬀
Information Institute: Mahara Tech