Ziad Mahmoud Mohammed
Machine Learning Engineer

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Profile

Dedicated AI enthusiast with a strong academic background in machine learning, deep learning and computer vision. Proficient in Python and experienced in data preprocessing, model development, and evaluation. Possesses excellent problem-solving skills, commitment to continuous learning, and strong communication skills. I thrive in dynamic and fast-paced environments, where I can contribute to high performing teams and deliver impactful results.

Experience

- **Remotasks**   Data Annotator
  United States . Remote   12/2023 – present
- **Giza Systems**   ITI graduation project supervisied by Giza Systems
  Cairo, Egypt   05/2023 – 07/2023
  Project: Benchmarking of Traffic Flow forecasting algorithms for route optimization.
  Benchmarked different models for traffic flow forecasting, designed a dashboard for visualization.
  Tools: Pandas, NumPy, Django Rest Framework, Dash, Plotly.

Education

- **Information Technology Institute (ITI), Alexandria, Egypt**
  9-Months Professional Diploma – AI & ML Engineering Track   10/2022 – 07/2023
- **Faculty of Science, Alexandria, Egypt**
  Bachelor of Science, Sim Department.   09/2018 – 07/2022
  Cumulative GPA: 3.15/4.0, Grade: Very Good

Projects

- **Arabic Dialects Classification**
  Applied Linear SVC achieving 80% on F1 Macro score & LSTM achieving 75% on F1 Macro score models to predict Arabic dialects given the text.

- **Diabetes Readmission Prediction, Kaggle Competition by ITI**
  Predicted readmissions of diabetic patients using Diabetes 130-US hospitals for years 1999-2008 dataset, Achieved Second place with a (73.5%) based on micro F1 score.

- **Unicorn-Companies Dashboard**
  Leveraging Plotly for data visualization and using the "Unicorn_Companies.csv" dataset, this dashboard provides an interactive and insightful experience to understand trends among unicorn companies.

- **Credit Card Clustering, Unsupervised Machine Learning Project**
  Applied unsupervised learning algorithms (K-means, HC, GMM, DBSCAN) on the "CC GENERAL.csv" dataset to determine optimal clusters.

- **Head Pose Estimation**
  Estimated head pose using the MediaPipe library on the AFLW2000 dataset. Applied ML models (SVR-Decision Trees-XGBOOST).

Skills

Technical Skills: Python / OOP / Deep Learning Natural Language Processing / Image Processing & Computer Vision / Git / SQL & NoSQL / Data Preprocessing & Visualization / Machine learning Data Structures & Algorithms.

Tools: NumPy / Pandas / Matplotlib / Seaborn / Scikit-learn / MySQL / Microsoft SQL Server / MongoDB / TensorFlow / AWS / Dash / Plotly / PowerBI.

Certificates