

Ziad Mahmoud Mohammed

Machine Learning Engineer

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🛂 Military state: Exempted 🔗 LinkedIn: <https://www.linkedin.com/in/ziad-mahmoud-1a09231a8/>
🐙 GitHub: <https://github.com/Ziad236>

Profile

Dedicated AI enthusiast with a strong academic background in machine learning, deep learning, NLP 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.

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
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Work Experience

- **Artificial Intelligence Intern - RadicalX (Remote)** 10/2023 – Present
Joining RadicalX as an Artificial Intelligence Intern, I'm embracing cutting-edge technologies like OpenAI, Vertex AI, and TensorFlow to enhance ReX, our AI Coach.
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Projects

- **Traffic Flow Forecasting Algorithms for Route Optimization**
ITI Graduation Project - Giza Systems Supervision
Benchmarked different models for traffic flow forecasting, designed a dashboard for visualization.
Tools: Pandas, NumPy, Django Rest Framework, Dash, Plotly.
 - **Arabic Dialects Classification**
Applied ML(Linear SVC achieving 80% on F1 Macro score) & DL(LSTM achieving 75% on F1 Macro score) models to predict Arabic dialects given the text.
 - **Diabetes Readmission Prediction, Kaggle Competition by ITI**
EDA for Diabetes 130-US hospitals for years 1999-2008 dataset.
Applied XGBOOST and achieved Second place with a (73.5%) based on micro F1 score.
 - **Unicorn Companies Dashboard**
Exploratory Analysis using Pandas and NumPy libraries on "Unicorn_Companies.csv" dataset.
Getting insights from visualizing the data using Plotly Dash.
 - **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).
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Skills

- **Programming languages** : Python, java
 - **Frameworks and libraries** : TensorFlow, scikit-learn, NumPy, SciPy, Pandas, OpenCV, Matplotlib, Seaborn, Plotly.
 - **Version control** : Git.
 - **Familiarity with Spark.**
 - **Familiarity with Power Bi.**
 - **Solid Knowledge of SQL & NoSQL (MongoDB).**
 - **Operating System** : Linux & Windows
 - **Spoken Languages** : Native in Arabic & Excellent in English.
 - **Strong Communication and Storytelling skills.**
 - **Solid problem solving skills.**
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Certificates

- Convolutional Neural Networks, **Coursera** [↗](#)
- Supervised Machine Learning: Regression and Classification, **Coursera** [↗](#)
- Unsupervised Machine Learning, **Coursera** [↗](#)
- Natural Language Processing with Classification and Vector Spaces, **Coursera** [↗](#)
- Fundamentals of Deep Learning, **Nvidia** [↗](#)
- Intermediate Python, **Datacamp** [↗](#)
- Intermediate SQL Queries, **Datacamp** [↗](#)
- Introduction to Git, **Datacamp** [↗](#)
- Database Fundamentals, **MaharaTech** [↗](#)
- Introduction to Machine Learning, **ITI** [↗](#)

02/2022
