Mahmoud Ebrahim Ebrahim

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Objective

Motivated and detail-oriented Data Science graduate with strong foundations in machine learning, statistical analysis, and data-driven problem solving. Completed a hands-on internship as a Data Scientist at DEPI Initiative, applying technical and analytical skills to meaningful projects. Passionate about deriving insights from telecom and structured data, with a keen interest in predictive modeling, classification problems, and impactful real-world applications.

Education

Bachelor of Engineering – Electronics and Communications Engineering

Mansoura University | 2023 – 2027

Work Experience

Data Science Intern – DEPI Initiative

Hybrid| Oct. 2024 – May. 2025

- Conducted extensive exploratory data analysis and built supervised learning models on complex datasets.
- Collaborated in a team environment, applying statistical reasoning and machine learning strategies to generate actionable insights.
- Developed pipelines for data preprocessing and feature engineering to support robust model training.

Projects

Rain Prediction Using Machine Learning ([GitHub](https://github.com))

- Built a classification model to predict the likelihood of rainfall using historical weather data.
- Engineered meaningful features from raw data to enhance prediction accuracy.
- Employed decision trees and ensemble methods to achieve strong model performance.

Land Type Classification Using Sentinel-2 Satellite Images *(Ongoing)*

- Designed a deep learning model using TensorFlow trained on the EuroSAT dataset.
- Implemented preprocessing techniques for multi-band satellite imagery.
- Focused on land type classification with applications in agriculture, urban development, and environmental monitoring.

Skills

- **Programming Languages:** Python, SQL, MATLAB, C, Java
- **Data Science & Machine Learning:** Scikit-learn, TensorFlow, Pandas, NumPy
- **Data Visualization:** Matplotlib, Seaborn, Plotly, Dash
- **Core Competencies:** Data wrangling, model selection, classification, teamwork, leadership, problem-solving

Courses

- CS50SQL: Introduction to Databases (Sep – Oct 2024)
- CS50AI: Introduction to Artificial Intelligence (Jul – Sep 2024)
- Linear Algebra for Machine Learning and Data Science (Dec 2024 – Feb 2025)