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Data Scientist

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Summary

Final-year AI & Informatics student with practical experience in Python, machine learning, and data analysis. Proficient in exploratory data analysis (EDA), predictive modeling, and data storytelling using tools like Seaborn and Power BI. Demonstrated ability to build and deploy end-to-end data science projects with strong focus on real-world applications. Known for a self-driven learning mindset and a commitment to continuous professional growth in the fields of AI and data science..

Education

Bachelor of Science in Artificial Intelligence, Data Science
Faculty of Artificial Intelligence, Menoufia University, Egypt

Oct 2022 – Present

Skills

Technical Skills:

- Python, SQL, Statistics, Machine Learning, Deep Learning (PyTorch), Computer Vision (OpenCV), NLP (Transformers, NLTK), Time Series Analysis, Web Scraping, Feature Engineering, Model Evaluation & Optimization.

Technologies & Tools:

- Streamlit, Git/GitHub, Linux, Big Data, Office, Data Visualization (Matplotlib, Seaborn, Power BI).

Soft Skills:

- Self-learning, Team Collaboration, Time Management, Communication, Adaptability, Problem Solving.

Projects

Student Performance Prediction

Dec 2023

- A machine learning project predicting students' final grades using socio-demographic and school-related attributes.
- Performed exploratory data analysis and visualizations using Pandas, Seaborn.
- Built and compared regression models (Linear Regression, Ridge, Lasso) to predict student scores.

Vehicle Detection using Haar Cascades (OpenCV)

Dec 2023

- A computer vision project to detect vehicles in real-time video streams.
- Utilized OpenCV's Haar features and cascades for object detection.
- Deployed a working prototype with annotated bounding boxes.

House Prices EDA & Regression Modeling

Apr 2025

- Exploratory Data Analysis and regression modeling to predict house prices using structured tabular data.
- Handled missing data, outliers, and feature engineering (log transforms, skew handling).
- Built baseline models and tuned performance using cross-validation techniques.

Sports Popularity Analysis with Web Scraping

May 2025

- Analyzed global interest in sports using scraped data from Wikipedia and Google Trends.
- Automated data collection using requests, BeautifulSoup, and API access.

DQN Agent for 2048 Game (Reinforcement Learning)

May 2025

- Built and trained a Deep Q-Learning agent to learn strategies for playing the 2048 puzzle game.
- Used PyTorch to develop the DQN model and tracked performance across episodes.

Auto-correct System using NLP & Edit Distance

May 2025

- Developed a spelling correction system like Google's "Did you mean...?"
- Applied NLP preprocessing, tokenization, and edit distance algorithms.