Abdalluh Ahmed Fathy
Data Scientist

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Summary

Passionate and detail-oriented Data Science student with hands-on experience in **Python, SQL, and data visualization** through academic work and personal projects. Skilled at transforming raw data into actionable insights using tools like **Pandas, Matplotlib**

EXPERIENCE

Data Science & AI Projects | Independent & Academic Work 2023 – Present
Self-Directed & University Projects

- **Applied** Python and SQL to explore, clean, and manipulate datasets from multiple sources, enabling accurate analysis and actionable insights.
- **Developed** and **evaluated** machine learning models (supervised and unsupervised) to solve classification, clustering, and regression problems, improving model performance through feature engineering and hyperparameter tuning.
- **Conducted** statistical analysis and implemented performance evaluation metrics to ensure model reliability and validity.
- **Enhanced** problem-solving skills by engaging in coding challenges and real-world case studies, building resilience in tackling complex data problems.

PROJECTS

Motorcycle Price Scraping *(2024)*

- Developed a Python-based web scraper using **BeautifulSoup** to collect motorcycle listings and prices from online sources.
- Cleaned and structured the data using **Pandas** for trend analysis on models, brands, and price ranges.
- Visualized results using **Matplotlib** and **Seaborn** to highlight market insights.
- **GitHub:** View Code

IMDB Movies Analysis *(2024)*

- Performed **Exploratory Data Analysis (EDA)** on IMDB datasets to uncover patterns in genres, ratings, and movie rankings.
- Used **Pandas** and **NumPy** for data processing, and **Matplotlib**/**Seaborn** for visual storytelling.
- Identified trends such as top-rated genres and decade-specific popularity shifts.
- **GitHub:** Explore Notebook

Titanic Survival Prediction *(2025)*

- Built predictive machine learning models using **Logistic Regression** and **Decision Trees** to forecast passenger survival.
- Conducted feature engineering, including new categorical features like “Family Size” and “Title.” ● Evaluated models using accuracy and F1-score metrics in **Scikit-learn**, achieving improved prediction performance.
- **GitHub:** View Results

EDUCATION

Bachelor of Science in Computer Science – Data Science Department *(Expected 2027)*
Faculty of Computers and Data Science, Alexandria University

- Coursework: Descriptive & Inferential Statistics, Probability, Data Mining, Machine Learning, Database Systems, Web Development, Python Programming, Data Visualization.
- Achievements: Completed a statistics project using Python for real-world data analysis. ● Academic Projects: Developed web scraping and data analysis pipeline for motorcycle market data using Python, BeautifulSoup, MongoDB, and Matplotlib.

CERTIFICATIONS

- **Associate Data Scientist in Python – DataCamp, 2025 (90 hours: Python Programming, Data Analysis, Machine Learning)**
- **Sprints x Microsoft Summer Camp – Artificial Intelligence and Machine Learning, 2025 (40 hours)**

Technical Skills

Python (Pandas, NumPy, Matplotlib, Scikit-learn) **|** SQL **|** Power BI **|** Data Cleaning **|** EDA **|** Machine Learning **|** Web Scraping **|** Data Visualization

Soft Skills

Problem-Solving **|** Analytical Thinking **|** Time Management **|** Teamwork **|** Communication **|** Adaptability