

Mohamed Asaad Elbadawy

Junior Data Scientist

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Summary

Junior Data Scientist and Data Analyst with hands-on experience in Python, SQL, Power BI, and Machine Learning. Skilled in building predictive models, creating interactive dashboards, and extracting actionable insights from complex datasets. Passionate about applying data-driven solutions to real-world business problems.

Education

Bachelor's Degree in Computer Engineering, Tanta University, Egypt Sept 2022 – Present

- Cumulative GPA (last Year) : 3.975 / 4.0
- **Courses:** Data Structures & Algorithms, Object Oriented Programming, Database Management Systems, Operating Systems, Software Engineering

Experience

Advanced Data Analytics Intern, National Telecommunication Institute (NTI) Jul 2025 – Aug 2025

- Completed **120 hours** of training in Excel, Power BI, SQL, Python, Web Scraping, EDA, Data Cleaning, and Data Warehousing.
- Performed **SQL queries** to extract, clean, and analyze datasets for reporting and insights.
- Built interactive **Power BI dashboards** and Excel-based reports for data visualization and trend analysis.
- Conducted **sentiment analysis** projects using Python for text preprocessing and classification.
- Developed freelancing skills including **proposal writing** and professional portfolio building.

Data Scientist Trainee, Digital Egypt Pioneers Initiative (DEPI) Oct 2024 – May 2025

- Participated in a competitive national training program by the Ministry of Communications and Information Technology, specializing in **AI and Data Science**.
- Applied **machine learning**, **data preprocessing**, and **predictive modeling** techniques using Python.
- Conducted **EDA** and statistical analysis to identify trends, patterns, and insights from large datasets.
- Collaborated on the **Sales & Demand Forecasting Application** project, achieving **91% accuracy** with XGBoost and deploying an interactive dashboard.
- Utilized Python libraries such as Pandas, NumPy, Scikit-learn, and Matplotlib for analysis and visualization.
- Completed modules on **soft skills**, freelancing, and career readiness.

Projects

Sales Forecast and Demand Prediction Sales Forecasting Repository

- Built and deployed an XGBoost-based machine learning model that achieved 90% accuracy in forecasting product sales and demand.
- Processed and analyzed a dataset of over 51,000 sales records, applying advanced feature engineering and data cleaning techniques.
- Performed exploratory data analysis (EDA) to identify key patterns that affect sales trends.
- Applied regression and time series analysis techniques to model seasonal and cyclical behavior.
- Developed a user-friendly dashboard using Streamlit for real-time visualization and insights.
- Activated experiments and managed model versions using MLflow.
- Deployed the model and dashboard to Streamlit Cloud, enabling public access and interaction.

- Tools: Python, Pandas, NumPy, Scikit-learn, Matplotlib, Seaborn, MLflow, Streamlit, Streamlit Cloud.
- View project: <https://sales-forecasting-application.streamlit.app/>

Technical Skills

Languages: Python, SQL, C++

Libraries & Frameworks: Scikit-learn, Pandas, NumPy, Matplotlib, Seaborn, LangChain

Tools & Platforms: Jupyter Notebook, Git, GitHub, Streamlit, Streamlit Cloud, MLflow, SQLite, VS Code, Excel, Power BI

Techniques & Concepts: Machine Learning, Time-Series Forecasting, Feature Engineering, Data Cleaning, Data Visualization, Regression Modeling, Model Deployment, Exploratory Data Analysis (EDA), Sentiment Analysis

Soft Skills

Communication, Teamwork, Problem Solving, Time Management, Adaptability, Creativity, Research Skills

Languages

Arabic: Native

English: Advanced