

MAHMOUD KOUTAIT

Junior Data Scientist

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Summary

Motivated and detail-oriented junior data scientist with a strong foundations in data analysis, machine learning, and statistical modeling. Proficient in using Python, SQL and various data visualization tools to extract valuable insights from complex datasets and visualize them. Skilled in applying machine learning algorithms to solve real-world problems and drive data-driven decision making. Demonstrated ability to collaborate effectively in cross-functional teams and communicate technical findings to non-technical stakeholders. Committed to continuous learning and staying up-to-date with the latest industry trends and technologies.

Education

Bachelor's in Mechatronics Engineering. Sept 2020 – Feb 2026
Faculty of Engineering, Menofia University.

- Grade: Good.

Experience

Machine Learning for Data Analysis, "National Telecommunication Institute". Aug 2025 – Oct 2025

- Developed skills in Python, Object-Oriented Programming, and data analysis and visualization libraries.
- Applied supervised learning techniques including regression and classification.
- Implemented unsupervised learning techniques such as clustering and dimensionality reduction.
- Gained introductory knowledge of deep learning and computer vision.
- Completed a final project applying machine learning to a practical problem.

IBM Data Science Specialization, "Coursera". Jan 2025 – Oct 2025

- Gained hands-on experience with Python, SQL, and data visualization libraries.
- Learned data science methodology, data analysis, and data wrangling techniques.
- Built and evaluated machine learning models using scikit-learn.
- Completed a capstone project applying data science techniques to a real-world dataset.

Digital Egypt Pioneers Initiative, "Data Analysis Track, 6 Months". Oct 2024 – Apr 2025

- Gained proficiency in SQL, Python, Excel, Tableau, and Power BI.
- Applied data cleaning, transformation, and statistical analysis techniques to extract insights.
- Built interactive dashboards and reports for data-driven decision-making.
- Completed a capstone project that demonstrated an end-to-end data analytics workflow.

Orange Internship, "Big Data and Machine Learning". Jan 2025 – Feb 2025

- Gained hands-on experience with Power BI and Python for data analysis.
- Learned machine learning fundamentals, including linear regression and classification.
- Built a laptop price prediction model using linear regression and made dashboard for it using Power BI.

Elaraby Internship, "Summer Internship." Jul 2024 – Aug 2024

Projects

Data Analysis Dashboards: Dashboards

Company Sales Data Analysis.

Laptop Price Prediction.

Heart Attack Prediction Model.

Picture Compression using SVD.

Certificates

Check out all my certificates here.

Certificates

Books

Check out books i have read here.

Boooks List

Technical Skills

Programming Languages: C | C++ | Python | SQL

Programming Concepts: OOP | Data Structure | Algorithms | Clean Code

Python Libraries: Numpy | Scipy | Pandas | Matplotlib | Seaborn | Scikit-Learn | Fastapi | BeautifulSoup | Plotly

Mathematical Foundation: Probability | Statistics | Linear Algebra | Calculus | Discrete Mathematics

Technologies and Concepts: Excel | Power BI | Tableau | MySQL | Environment Management | Jupyter Notebook | LaTeX | Git | GitHub | Linux | Docker | Problem Solving | Data Cleaning | Data Preprocessing | Data Modeling | APIs | Reporting Skills | Prompt Engineering

Soft Skills

Problem Solving | Attention to Details | Time Management | Communication | Analytical Thinking

Languages

Arabic: Mother-Tongue

English: Upper intermediate "B2"