Mahmoud Hamed Namnam

6-October, Egypt

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SUMMARY

A data scientist proficient in Python, SQL, data visualization, and statistical analysis, with a focus on creating innovative data-driven solutions. Passionate about leveraging machine learning and analytical techniques to drive insights and business value.

EDUCATION

Kafrelsheikh University, Faculty of Computers and Information Technology GPA: 3.2   **Sep. 2021 - 2025**
Bachelor of Computer Science

PROJECTS

Predicting NYC Taxi Trip Duration! | *EDA - ML GitHub Repo.*   **August 2024**

- Developed a predictive model using Polynomial Linear Regression, Ridge Regression, and Lasso Regression.
- Implemented preprocessing and hyperparameter tuning with GridSearchCV for high accuracy.
- Utilized Python, Pandas, NumPy, and Scikit-learn.

Stock Price Prediction Model | *LSTM, Time Series Analysis, Dashboard Visualization* GitHub Repo.   **November 2024**

- Developed a system leveraging LSTM neural networks to predict stock prices for multiple manufacturers with high accuracy.
- Trained custom LSTM models with flexible hidden layers and dropout mechanisms to enhance generalization.
- Created an interactive Streamlit-based dashboard for visualizing stock trends, moving averages, daily returns, and high-low spreads using Plotly.

SuperStore Analysis | *EDA - ML Github Repo.*   **April 2024**

- Conducted analysis of sales, profit, customer behavior, and product performance using Python libraries and machine learning techniques.
- Analyzed profit margins and utilized machine learning for customer segmentation.
- Enhanced skills in data analysis, statistical interpretation, and machine learning applications.

Power BI Sales Dashboard | *EDA - BI* Github Repo.   **August 2024**

- Conducted sales analysis for Olist using Power BI and SQL, providing insights into customer behavior, product performance, and sales trends.
- Analyzed key metrics such as total sales, monthly sales, order status, and category-specific performance.
- Enhanced data quality through thorough preparation, including handling duplicates and null values, and translating product categories.

ACHIEVEMENTS AND RELEVANT EXPERIENCE

- Participated in the qualification contest Day 2 at ECPC 2023. Certificate.
- Solved over 550 problems on LeetCode, showcasing strong PS skills and proficiency in various algorithms and data structures. LeetCode profile: MahmoudNamNam.
- completed a 60-hour training at Orange Camp focused on key topics such as DB, OOP, SOLID principles, design patterns, and unit testing. Certificate.
- Completed a 45-hour training course and developed a final project for a potential startup as a project manager in the InnovEgypt program. Certificate.
- Completed summer training at ITI in the BI track.
- Contributed technically as a member of IEEE with AIET.
- Participated in the Data Science Department of MSLC with EELU.

TECHNICAL SKILLS

Programming Languages: Python, C++, Java, JavaScript (JS)

Technologies/Frameworks:

- Data Analysis and Visualization: Python (Pandas, NumPy, Matplotlib, Seaborn, Plotly), Power BI, Tableau

- Database Management: SQL (MySQL, SQLite), NoSQL (MongoDB)

- Machine Learning: sklearn, PyTorch

- Deep Learning: Neural Networks, CNNs, and RNNs

- Computer Vision: OpenCV, Image Processing

- Web Development: JS, Bootstrap

- Cloud Computing: Basic knowledge of cloud services (AWS, Microsoft Azure)

- Version Control: Git, GitHub

CERTIFIED COURSES

- **Google Data Analytics (JAN 2024):** Certificate.

- **Data Analytics with Python (DEC 2023):** Certificate.

- **Data Analyst Associate Certificate (MAY 2024):** Certificate.

- **Python (NOV 2023):** Certificate.

- **Mastering Data Structures and Algorithms (JUNE 2023):** Certificate.

- **Innov Egypt Program (OCT 2022):** Certificate.