Rania Sakr

Data Analyst

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EDUCATION

Bachelor of Computer Science and Engineering (GPA 3.3) 09/2019 – 07/2024
Faculty of Electronics and Engineering, Menofia University

PROFESSIONAL EXPERIENCE

Data Scientist 05/2023 – 07/2024
ALX
- Engineered and enhanced relational databases using SQL, resulting in a 30% increase in data retrieval speed.
- Constructed Power BI dashboards and utilized ETL tools for data cleaning and pipeline creation.
- Implemented Python-based supervised machine learning models, achieving up to 90% accuracy in classification tasks.
- Explored NLP techniques and developed basic text analysis tools for sentiment analysis.
- Deployed data processing pipelines using AWS cloud services, enhancing data accessibility and scalability.

PROJECTS

Break Through Hire 09/2023 – 07/2024
Graduation project
- Scraped over 10,000 job posts using Selenium, creating a comprehensive dataset.
- Applied NLP models (SpaCy, pre-trained models, LSTM) to extract job titles and skills, and matched CVs to job ads with 85% accuracy.
- Developed a Flask application to connect frontend and backend, ensuring seamless data flow and user interaction.
- Utilized SQL databases to manage job seeker and recruiter information, enhancing login and search functionality.
- Presented insights using Looker Studio, helping users identify key trends in job markets and skill requirements.

Business performance Dashboard
- Designed an interactive dashboard using Power BI.
- Visualized key metrics: Gross Sales, Sales, COGS, and Profit with YoY growth.
- Implemented filters for Country, Discount Band, Product, and Segment.
- Created visual elements: monthly sales trends and sales contributions.

Loan Application Analysis

- Conducted a detailed analysis of loan application data to gain insights into the approval process and applicant profiles.
- Identified key risk factors influencing loan decisions and performed demographic profiling of applicants.
- Built interactive dashboards to visualize performance metrics, enhancing understanding of the lending process and supporting data-driven decision-making.

Bankruptcy Prediction
using machine learning
- Employed machine learning models (Gaussian Naïve Bayes, Logistic Regression, SVM, Gradient Boosting Trees, Neural Networks) to predict company bankruptcy with up to 96% accuracy.
- Addressed class imbalance using SMOTE and evaluated misclassification costs, improving model robustness.

SKILLS

- Programming Languages: Python, Java, C, C++
- Version Control: GitHub, GIT
- Machine Learning: Supervised learning models
- Web Development: Flask
- Databases:SQL
- Data Visualization: Power BI, familiar with Tableau
- Cloud Services: AWS