Mohammed Elkhiat

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Summary

I am a highly motivated, detail-oriented, and ambitious individual with a strong passion for machine learning and data science. I am excited about the opportunity to collaborate with industry experts and contribute to groundbreaking projects that push the boundaries of technology. I am committed to continuous learning and growth, and I am confident that my dedication and skills make me a valuable asset to any team focused on driving innovation in that field.

Education

Cairo University   August 2021 - Expected August 2026

Computer Engineering Department

> **Relevant Coursework:** Data Structures and Algorithms (C++), Data Base, Probability & Statistics, Linear Algebra, Calculus, Object-Oriented Programing.
>
> **Awards**: First place at math research day by TCCD Career Center for the statistics project.

WorldQuant University   March 2023 - August 2023

Applied Data Science Lab

> **Learnings**:
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> - Completed eight projects. Each project consists of four self-paced lessons, followed by a graded assignment.
> - *In each project, we accessed data from files, SQL and NoSQL databases then cleaned data to prepare training sets*
> - Built machine learning models for supervised and unsupervised learning tasks using scikit learn.
> - Created visualizations to explain data characteristics and model predictions for non-technical audiences.

Projects

Employee Attrition | *Python, Scipy.stats, scikit learn, Pandas, Plotly, Jupyter. Project link*

- Conducted statistical analysis and hypothesis testing to gain insights into the factors contributing to employee turnover.
- Built a machine learning model that accurately predicts the probability of an employee quitting then put a risk level to each.

Retain Radar web app | *Python, Scipy.stats, Plotly, Streamlit. Project link* | *Try the demo*

- Deployed the predictive model built in Employee Attrition project as a full web application providing an accessible platform for users to input employee data and obtain attrition predictions in real-time.

Process Scheduler | *C++, Data Structure, OOP. Project link*

- Utilized data structures and OOP concepts to keep the CPU busy as possible and minimize response time and waiting time for processes being scheduled as a simulation shown in console.
- My job was to implement the algorithm that each processor follow to schedule and process its processes.

Skills

Programming Languages: C++, Python, SQL.

Data Manipulation and Visualization: Numpy, Pandas, Matplotlib, Seaborn, Plotly.

Data Science and relevant skills: Machine Learning (Sckit-learn, XGBoost), Hypothesis testing (Scipy.stats), Streamlit, Web scraping, Ensemble methods, Familiar with Neural Networks.

Courses

- Data Science with Python track (23 courses) from DataCamp.
- Supervised Machine Learning: Regression and Classification from DeepLearning.AI at Coursera.
- Advanced Learning Algorithms from DeepLearning.AI at Coursera.