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 the field of machine learning and data science.

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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> - Complete 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 clean data to prepare training sets
> - Build 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, Plotly Express, Streamlit.* *Link*

- Conducted statistical analysis and hypothesis testing using Scipy to gain insights into the factors contributing to employee turnover followed by plots that visualize the data.
- Utilized scikit-learn to build a machine learning model that accurately predicts the probability of an employee quitting then put a risk level to each employee.
- Created an interactive form using Gradio, allowing users to interact with the results.
- Deployed the predictive model as a **full web application** using Streamlit, providing an accessible platform for users to input employee data and obtain attrition predictions in real-time. Try the demo

Skills

Programming Languages: C++, Python, SQL.

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

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.