

# Seraj Eldeen Abdullah

## Data Scientist

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### SUMMARY

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I am **Seraj Eldeen Abdullah Mohamed**, a **Data Scientist** with a strong foundation in **software engineering**. I combine clean engineering practices with analytical thinking to develop **scalable data pipelines**, perform **insightful data analysis**, and deliver **high-performance machine learning solutions**. My focus is on transforming complex data into **clear, actionable business insights**. I am prepared to contribute to building impactful, data-driven solutions.

### PROJECTS

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#### IBM Customer Churn Prediction

12/2025

- Built churn prediction models using Logistic Regression, Random Forest, and XGBoost, evaluated with ROC-AUC and accuracy.
- Improved model reliability through data cleaning, feature engineering, and exploratory data analysis.
- Analyzed feature importance to identify key drivers of customer churn.

#### Predict Health-Metrics

12/2025

- Built regression models to predict blood pressure, evaluated using RMSE.
- Built classification models to predict diabetes outcomes, evaluated with accuracy and precision.
- Visualized health trends using Seaborn and Matplotlib to support interpretation.

#### Transportation Patterns Dashboard

11/2025

- Built a Power BI dashboard analyzing NYC Uber and FHV trip trends and geographic patterns.
- Identified peak hours and high-demand areas through temporal and spatial analysis.
- Provided data-driven insights to optimize driver allocation and fleet scheduling.

#### Customer Churn Dashboard

11/2025

- Developed a Power BI dashboard combining demographics, usage, and churn reasons.
- Identified high-risk churn segments and key drivers through interactive analysis.
- Delivered actionable insights to improve customer retention strategies.

### EDUCATION

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**University of Alexandria Egypt, Bachelor of Computer and Data Science | GPA: 3.4**

- Relevant Coursework:** Machine Learning, Probability & Statistics, Discrete Mathematics, Data Visualization, Design and Analysis of Experiments, Survey Methodology

### SKILLS

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Python, Pandas, Numpy, Matplotlib, Seaborn, Sklearn, SQL, PowerBI, Scikit-learn, Git