

Amir Abdalla

[Portfolio](#) | [GitHub](#) | [LinkedIn](#)

Education

Seneca Polytechnic

Bachelor of Engineering in Software Engineering, Artificial Intelligence

Toronto, ON

Dec. 2022 – Aug 2026

Technical Skills

Languages: Java, C/C++, HTML/CSS, Python, JavaScript

Frameworks/Libraries: React, Pandas, Matplotlib, Seaborn, Scikit-learn

Tools: Git, GitHub, Command Line Interface, VS Code, Jupyter Notebook, Microsoft Office applications, Google Colab

Methodologies: Data Mining, Machine Learning, Agile Frameworks

Projects

Traffic Analysis and Pattern Recognition Project / *Python, Pandas, Matplotlib, Scikit-learn, CSV Handling*

- Analyzed over 190,000 traffic-related records from 2020-2029 to uncover congestion patterns and peak traffic hours.
- Applied data preprocessing techniques to handle missing values and ensure data integrity across 60+ columns.
- Developed machine learning models using Decision Trees and K-means Clustering to classify traffic levels and identify locations with similar trends.
- Delivered insights through visualizations and dashboards, enabling actionable recommendations for urban planning.

AI-Powered Chatbot with Tkinter GUI / *Python, Tkinter, Multi-threading, Google Generative AI*

- Designed a user-friendly GUI supporting natural language interactions and multi-turn conversations.
- Integrated Google Generative AI API for dynamic, context-aware responses, achieving high accuracy across 50+ test queries.
- Utilized multi-threading to ensure smooth, asynchronous interactions.

Experience

Starbucks, Barista

Jan 2023 – Present

Oakville, ON

- Collaborated in a fast-paced team environment to deliver exceptional customer service, enhancing teamwork and communication skills.
- Trained over 10 new employees, fostering a culture of continuous improvement and adherence to company standards.
- Leveraged problem-solving abilities to address customer inquiries, ensuring a 100% improvement in satisfaction ratings.

