Akram Jamil

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Technologies

Languages: C/C++, Python, Dart, SQL, Java, JavaScript, TypeScript, HTML, CSS, Scheme, Racket

Libraries/Frameworks: Matplotlib, NumPy, NumPy Financials, pandas, yfinance, Flask, Selenium, BeautifulSoup, React, Next.js, TailwindCSS, Flutter

Developer Tools/Technologies: VS Code, Android Studio, Jupyter Notebook, LaTeX, Blender, Git, Figma, Linux, Bash

Education

University of Waterloo *Sep 2024 to Apr 2029*
BCFM in Computing & Financial Management (Honors)

- **Majors:** Computer Science, Accounting & Finance
- **Cumulative GPA**: 3.84/4.00
- **Relevant Coursework:** Financial Markets & Data Analytics (Python), Designing Programs (Racket), Algorithm Design and Data Structures (C), Techniques for Software Development (Git/GitHub/Bash/Linux)

Experience

Telecommunications Consultant Intern *Toronto, ON*
Canada Cartage System Limited *Jun 2022 to Aug 2022*

- Achieved a **20% reduction in downtime** by deploying a company-wide telecommunications infrastructure upgrade, ensuring seamless communication across over **5000+** devices while optimizing network performance.
- **Implemented a database management system** in Python for Android device identification codes and streamlined application installations using Samsung Knox, improving scalability across **35+ regional offices**.
- **Analyzed and maintained telecommunications data systems** to ensure compliance with industry standards and internal policies, ensuring secure and efficient operations.
- **Collaborated with IT teams** to develop and implement scalable communication solutions that supported the company's logistics and transport operations, enabling efficient handling of **10,000+ daily logistics requests**.

Projects

AlzGuard – YIC (Youth Impact Challenge) Winning Project *GitHub Link*

- Engineered the front-end and AI model using React, Python, HTML, and CSS for an Alzheimer's detection tool aimed at physicians, which won a **$1,000** prize at YIC.
- Aided in developing a convolutional neural network (CNN) to classify **2000+** images and qualitative clinical data to determine the likelihood of a patient having Alzheimer's Disease with **85.3%** accuracy.
- Collaborated in a **team of 3** to integrate machine learning models (Random Forest, Meta Classifier) for analyzing MRI scans providing invaluable support in early diagnosis and patient care management.

NLP Webscraping Tool *GitHub Link*

- Built an AI-Powered Webscraper that dynamically pulls data from a website, using a Meta's AI (**Llama ver. 3.2**).
- Created an NLP-powered solution that dynamically extracted relevant content from website URLs based on user prompts, achieving accurate data retrieval across **100+** test cases, enhancing web-scraping efficiency.
- Designed front-end in React.js Framework and the Selenium Python Package and connected using a Flask server.

Random Forest Classifier for Stock Predictions *GitHub Link*

- Developed a custom predictive analytics tool to forecast stock price movements based on historical financial data over the **past 10 years**.
- Programmed a Random Forest Classifier in Python using Scikit-Learn, **trained on 10,000+ data points** of stock prices and trading volumes, combined with technical indicators to achieve a **15%** improvement in predictive accuracy for market trends.
- Data is taken from Yahoo Finance using the yfinance library in Python and recommends a stock that has a greater than **55% chance of rising** in value.