Akram Jamil

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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:** Analyzing Financial Markets in Python, Designing Programs, Algorithm Design and Data Structures, Techniques for Software Development, International Business

Experience

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

- Managed server-side telecommunications systems (with over 5000+ devices), optimizing network performance and ensuring seamless communication across multiple departments.
- Analyzed and maintained telecommunications data to ensure compliance with industry standards and internal policies.
- Aided in the deployment of a company-wide project to upgrade the telecommunications infrastructure, reducing downtime by 20%.
- Collaborated with IT teams to implement scalable communication solutions, supporting the company's logistics and transport operations.

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 can pull data from any website, given a prompt, using a Meta's Ollama 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.

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

Tools/Technologies: Visual Studio Code, Android Studio, Jupyter Notebooks, LaTeX, Blender, Git/GitHub, Figma