Akram Jamil

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Education

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

- **Majors:** Computer Science, Accounting & Finance
- GPA: 3.9/4.0
- **Coursework:** Analyzing Financial Markets in Python, Designing Programs, Algorithm Design and Data Structures, Techniques for Software Development, International Business

Projects

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

- Developed 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.
- Developed a convolutional neural network (CNN) and a Random Forest classifier to classify images and clinical data to determine the likelihood of a patient having Alzheimer's Disease
- Collaborated in a team of three to integrate machine learning models (Random Forest, Meta Classifier) for analyzing MRI scans, providing predictions with accuracy scores above 85%

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.
- Utilizes Natural Language Processing (NLP) to automatically scrape desired content of any kind based on a user prompt from a given website URL.
- Designed front-end in React.js Framework and the Selenium Python Package.

Random Forest Classifier for Stock Predictions   *GitHub Link* ↗

- Developed a custom predictive analytics tool to forecast stcok price movements based on historical financial data over the past 10 years.
- Makes use of financial technical indicators and the machine learning algorithm was then trained on stock prices, trading volumes with a Random Forest Classifier built using Scikit Learn in Python
- 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.

Experience

Teaching Assistant   *Brampton, ON*
Kumon Canada   *Sep 2020 to Present*

- Provided personalized tutoring in mathematics and reading, supporting students in grades K-12 to build strong foundational skills.
- Conducted progress assessments, enabling tailored learning plans and ensuring student development.
- Assisted in classroom management, promoting a productive learning environment.
- Supported students in developing self-learning habits, fostering independence and academic confidence.

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

- Managed server-side telecommunications systems, optimizing network performance and ensuring seamless communication across multiple departments.
- Assisted in troubleshooting and resolving telecommunication issues, reducing system downtime and improving operational efficiency.

- Analyzed and maintained telecommunications data to ensure compliance with industry standards and internal policies.
- Collaborated with IT teams to implement scalable communication solutions, supporting the company's logistics and transport operations.

Technologies

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

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

Tools/Technologies: Visual Studio Code, XCode, Android Studio, Jupyter Notebooks, LaTeX, Next.js, MongoDB, Blender, Git/GitHub, Figma