Akram Jamil

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Technologies

Languages: C/C++, Python, Java, JavaScript, TypeScript, Bash, SQL, HTML, CSS, Dart, Scheme, Racket
Developer Tools: Git/GitHub, Docker, Kubernetes, AWS, Jupyter Notebook, IntelliJ, Android Studio, Figma
Databases: PostgreSQL, SQLite, MongoDB, Firebase
Operating Systems: Windows, macOS, Linux (Ubuntu)
Libraries/Frameworks: pandas, NumPy, TensorFlow, React, Node.js, Next.js, Express.js, Vite, TailwindCSS, Flask, Selenium, SQLAlchemy, SciPy

Experience

Canada Cartage System Limited, Telecommunications Consultant Intern
Toronto, ON
Jun 2023 to Aug 2023
2 months

- 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 Winning Project   *React, JavaScript, TensorFlow, Scikit-Learn, Python, Flask*   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 (Youth Impact Challenge).
- 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   *React, JavaScript, Ollama, Python, Flask, Selenium*   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   *TensorFlow, Scikit-Learn, Python*   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.

Education

University of Waterloo, Bachelors of Computing & Financial Management (Honors)
Sep 2024 to
Apr 2029

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