Abdulrahman Odejayi

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EDUCATION

Bachelor of Computer Science Honours   **Expected Graduation Date:** April 2027
Carleton University, Ottawa ON | 3.83/4 GPA
- Pursuing a concentration in Artificial Intelligence and Machine Learning.
- Coursework**:** Data Structures and Algorithms, Object-Oriented Programming, Software Engineering, Systems Programming, Discrete Mathematics, Web Development. Linear Algebra, Calculus.

TECHNICAL SKILLS

Languages: Java, Python, C, C++, JavaScript, HTML, CSS, SQL
Frameworks/Libraries: React.js, Node.js, Express.js, Scikit-learn, Pandas, NumPy, Streamlit, TailwindCSS, OpenAI API
Developer Tools: Git, GitHub, Linux, Docker, VS Code, IntelliJ, Eclipse, jsPDF
Other Skills: RESTful API Design, Frontend-Backend Integration, Database Design, Client-Server Communication

PROJECTS

AI-powered Resume Enhancer [[Live Demo](#) | [GitHub](#)]   **React, Express, OpenAI API, TailwindCSS, jsPDF**
- Developed a full-stack web application using **React** (frontend) and **Express** (backend), integrated with **OpenAI's GPT-4o** to generate real-time AI-powered resume suggestions focused on clarity, impact, and wording.
- Built a responsive, fast-loading UI with **TailwindCSS**, achieving **<1s** load times across devices.
- Enabled users to download feedback via **jsPDF**, resulting in **100+** formatted resume reports generated.
- Deployed using Render and Vercel, with **150+** user interactions and consistent uptime across test sessions.

House Price Prediction Model [[Live Demo](#) | [GitHub](#)]   **Python, Scikit-learn, Streamlit, Pandas, Numpy**
- Developed a machine learning model using **Scikit-learn**, achieving an R^2 score of **0.73** and a Mean Absolute Error (MAE) of ~**$67,000**, predicting house prices using key features (e.g., bedrooms, bathrooms) from a **Kaggle** dataset.
- Engineered and preprocessed features to enhance model accuracy, generalizability, and interpretability enhancing model accuracy by **21%.**
- Developed and deployed an interactive **Streamlit** web app for real-time predictions, making the model accessible via a user-friendly interface.
- Awarded a **Bronze Merit Award** at the Bay Area Science and Engineering Fair for project innovation and impact.

Search Engine [[GitHub](#)]   **Java, JavaFX, OOP, TF-IDF, PageRank**
- Built a scalable search engine in Java using TF-IDF and cosine similarity to rank and retrieve **100+** documents with high relevance.
- Developed a web crawler that parsed content from **500+** web pages to populate the search index dynamically.
- Integrated optional PageRank-based boosting, improving ranking quality and surfacing more authoritative pages during testing.
- Applied object-oriented design principles to ensure modular, maintainable, and scalable code architecture.
- Designed an interactive JavaFX GUI that enabled intuitive search queries and real-time result display.

CERTIFICATIONS

Intro to Machine Learning   **Kaggle**
Certificate of completion   Feb 2023

WORK EXPERIENCE

Coding Tutor   July 2023 – August 2024
Light of Islam Canada   *Brampton, ON*
- Tutored **Python** and **Java**, improving student understanding of core concepts and earning positive feedback for

Production Operator (Summer Student)   May 2024 – August 2024
Aspire Bakeries   *Brantford, ON*
- Optimized workflows, troubleshot equipment to minimize downtime, and managed tasks efficiently during **12-hour shifts**, boosting overall productivity.