Mohammed Mawi

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Summary: Fourth-year Computer Science student experienced in full-stack development **(React + Flask)** and data-driven applications using **Python, Pandas, and Scikit-learn**. Demonstrated ability to design end-to-end systems, from **model training** to **API deployment**, supported by **teamwork, adaptability, and clear communication.**

EDUCATION	TECHNICAL SKILLS
York University — B.A. (Honours) in Computer Science *Toronto, ON | Expected June 2026*	**Languages:** Python, SQL, Java, C/C++, JavaScript **Data & ML Tools:** Pandas, NumPy, Scikit-learn, Matplotlib, Power BI, Jupyter Notebook **Frameworks & APIs:** Flask, REST API, React **Platforms & Dev Ops:** Docker, Git, Linux, Azure, VS Code, IntelliJ **Concepts:** ETL Pipelines, Feature Engineering, Data Modeling, LLM Integration

Projects

Data Analyzer Web App (In Progress) | *React, Flask, RESTful API, Pandas, Matplotlib, OpenAI API, Docker*

- Building a **full stack** data analysis tool that allows users to upload CSV datasets and interactively explore statistics, correlations, and visualizations.
- **Optimized dataset handling time** with memory processing using **Pandas** and generated **real time visualizations**, enabling users to explore and **interpret data interactively**.
- Implemented **LLM integration (OpenAI)** to generate natural language insights, enabling users to **understand correlations and summaries without prior data expertise**.

Live Flower | *Arduino Uno, C++, Custom Arduino Interface*

- Collaborated in a **3 person team** to design and build an **interactive hardware** project that emulates the behavior of a sunflower using **sensors and motorized components.**
- **Delegated tasks** over hardware integration, coding, and testing, ensuring **smooth teamwork** and **timely delivery**.
- **Developed and integrated** custom C++ logic with sensors (photosensor, motion, capacitive touch, etc)
- **Showcased a live demo** of a functional prototype, **earning positive feedback** for its responsive interactivity.

House Price Predictor | *Python, Pandas, Scikit-learn, Jupyter Notebook*

- Developed a **regression model** to predict house prices using structured datasets, applying **feature engineering** and **data preprocessing** to improve performance by **30%**
- **Trained and evaluated** Linear Regression and Random Forest models, achieving **~0.63 R² accuracy** with reduced mean absolute error.
- Conducted **feature engineering** (e.g., total_rooms, categorical encoding) that improved model performance by **~15% compared to baseline**.

Experience

Inkeros	May 2024 – September 2024
Sales Representative	*Etobicoke, ON*

- **Surpassed** weekly sales **targets by 20%** while communicating complex product value to **40+ customers** daily.
- Maintained an average **conversion rate of 15%**, demonstrating strong sales and rapport building skills
- Honed **communication and negotiation skills** in a fast paced, target driven sales environment