

# Mohammed Mawi

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## Education

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### Digital Media Development - BA Honours

York University

Toronto, ON

Expected: Jun 2026

**Relevant Coursework:** Data Structures & Algorithms, Database Management Systems, Software Tools, Object-Oriented Programming, Net-Centric Computing, Applied Statistics, Discrete Math

## Projects

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### 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.
- Designed a modern UI with React, such as dynamic sidebar controls, responsive layout, and real-time data display.
- Integrated **Flask backend** with in-memory Pandas data processing to analyze datasets without saving files to disk.
- Implementing **LLM integration** using OpenAI to generate natural language insights (e.g., explain correlations or graphs).

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

- Developed a **regression model** to predict house prices using structured housing data.
- Engineered features (e.g., combined bedrooms and bathrooms into total\_rooms), removed outliers, and encoded categorical variables.
- Trained and evaluated Linear Regression and Random Forest models using **R<sup>2</sup> and MAE metrics (~0.63 R<sup>2</sup>)**.
- Gained hands-on experience with **real-world ML workflows**, including model trade-offs and data limitations.

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

- Built an **interactive hardware project** that emulates the behavior of a sunflower using **sensors and motorized components**.
- Integrated Arduino Uno with a photosensor, motion sensor, capacitive touch sensor, servo motor, and Neopixel lights.
- Focused on hardware/software integration and real-time interaction using custom **C++-based logic**

## Technical Skills

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**Languages:** Python, Java, C/C++, SQL, JavaScript, HTML/CSS, React, Node.js, Flask, JUnit

**Tools & Libraries:** Visual Studio Code, Jupyter Notebook, IntelliJ, Eclipse, Git, Docker, RESTful API, OpenAI, Pandas, Matplotlib, Scikit-Learn

## Experience

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### Sales Representative

June 2024 – September 2024

Inkeros

Etobicoke, ON

- Exceeded individual sales targets by up to **20% weekly**, driving strong results for Telus campaigns
- Connected with over **40+ customers daily**, delivering persuasive product presentations and closing high-volume deals
- 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