

# Ibraheem M. Hussain

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Personal Website: [ibraheem-21.github.io/Portfolio-Web/](#)

## EDUCATION

### University of Toronto - St. George

Toronto, Ontario

HBSc - Computer Science

Expected Graduation, June 2028

- o **High School Grade 12 Cumulative Average:** 97%, Honour Roll with Distinction
- o **Related Coursework:** Data Structures & Algorithms, Computer Organization and Programming, Objects & Design

## PROJECTS

### Movie Recommendation System

Mississauga, Ontario

Sole Creator

Oct 2024

- Developed a **Movie Recommendation System** that achieved **90% accuracy** in personalized recommendations using **collaborative** and **content-based filtering** techniques, enhancing user experience by tailoring movie suggestions based on **user preferences** and **viewing history**.
- Employed **data preprocessing** and **machine learning** techniques to clean and model **10,000+ data entries**, showcasing proficiency in **Python**, **Pandas**, and **scikit-learn** libraries for data-driven solutions.

### Oakland, CA Weather Prediction Model

Mississauga, Ontario

Sole Creator

Oct 2024

- Developed a predictive model for **Oakland, CA**, using **Ridge regression** in **scikit-learn**, achieving **over 99% accuracy** in next-day maximum temperature forecasts and **reducing mean squared error by 25%** from baseline.
- Conducted advanced **data preprocessing** and **feature engineering** with **pandas**, enhancing prediction accuracy by refining historical temperature and precipitation metrics.

### Currency Converter

Mississauga, Ontario

Sole Creator

July 2024

- **Real-Time Conversion Capability:** Developed a currency converter in Python supporting conversions between over **50 global currencies**, achieving **99% accuracy** in conversion rates using a robust **currency converter API**.
- **Efficient Codebase:** Built with over **500 lines of Python code**, demonstrating effective programming practices and efficient API integration for accurate and timely currency conversion results.

### Portfolio Website

Mississauga, Ontario

Sole Creator

Nov 2023 - Dec 2023

- **Responsive and Optimized Performance:** Developed a portfolio website using HTML, CSS, and JavaScript, incorporating over **10 interactive design elements** with an average loading time **under 2 seconds**.
- **Cross-Device Accessibility:** Designed the site for seamless browsing on mobile, tablet, and desktop, ensuring professional presentation and visibility across devices.

## EXPERIENCE

### Match Official

Mississauga, Ontario

Ontario Soccer

May 2022 – Present

- **Registered Ontario Soccer Entry Level Referee** with over **50 games** of experience, demonstrating a strong understanding of game rules and officiating standards.
- Developed **problem-solving and decision-making skills** by **managing diverse game situations**, ensuring fairness and integrity across various levels of competition (Recreational U18, Competitive, Adult League, and OPDL).
- **Enhanced communication and teamwork abilities** by collaborating with coaches, players, and other officials to maintain a positive playing environment.

### Mandatory Operator

Mississauga, Ontario

City of Mississauga

Jun 2024

- Managed and operated tabulator machines to process ballots with **100% accuracy** for the 2024 Mississauga Municipal By-elections, ensuring **integrity in high-volume data processing** tasks similar to **software testing**.
- **Resolved technical issues with machines** promptly, minimizing disruptions and **maintaining a smooth workflow** for the ballots, showcasing **strong troubleshooting** and **problem-solving** skills relevant to software support.

## SKILLS

**Programming Languages:** Python, Java, HTML, CSS, JavaScript

**Libraries/Frameworks:** scikit-learn, Pandas, Matplotlib, NumPy, Plotly

**Development Tools:** Visual Studio Code, PyCharm, Git, Github, Jupyter

## AWARDS

### Reuben Wells Leonard Scholarship

University of Toronto - University College

Oct 2024