

Mohammad Sami Nur Islam

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Education

McGill University, *Computer Science and Mathematics*

Sep 2021 – Dec 2024

- Third-year undergrad with an expected graduation date of **December 2024**.
- Awarded the Hugh Brock scholarship, a renewable \$5000 per annum scholarship.
- GPA 3.81

Skills

Programming Languages (Python, Java, JavaScript, C, R) | **Databases** (MongoDB, Postgres, MySQL)

Machine Learning (NumPy, Pandas, Scikit-learn, PyTorch, Sagemaker) | **Cloud** (AWS, Azure) | **Web** (React, Redux)

Work Experiences

Machine Learning/Data Engineer Intern, *Rio Tinto*

May 2023 – Aug 2023 | Montreal, Canada

- Created Extract, Transform, and Load (ETL) components in **Python (Pandas, Scikit-learn)**.
- Used **AWS services (Lambda, Step Functions, S3)** to deploy and test data pipelines.
- Collaborated closely with the Data Science team, gaining a deep understanding of their model notebooks and deployment needs on **Sagemaker**.
- Interfaced regularly with a **Postgres database** to validate raw data and prediction results.

Data Science Intern, *Shikhbe Shobai*

Jun 2022 – Aug 2022 | Dhaka, Bangladesh

- Built a data visualization dashboard (using **Streamlit**), analyzing around **8000** user data.
- Wrote data-wrangling scripts with the **Pandas** and **Scikit-learn** libraries and visualization scripts with the **Matplotlib** library.

Projects

Wall Street Sentiments 

May 2023 – present

- Designed a full stack application that makes use of sentiment data of the day's popular stocks on Reddit and fundamental data of those stocks to predict buy/not buy every morning of trading days.
- Designed an event-driven architecture for the data pipeline using **AWS Lambda Functions**.
- Used Finhub.io API to extract financial data and Apewisdom API to get sentiment data.
- Orchestrated the ETL pipeline with **AWS Step Functions**.
- Trained ML models (**Random Forrest, XGBoost**) using the compiled dataset.
- Built a dashboard using **React** for the front end and **MongoDB** as a database.

Leadership and Extracurriculars

Technical Project Manager, *McGill AI Society*

Apr 2023 – present | Montreal, Canada

- Created assignments over the summer for McGill AI Society Bootcamp attendees.
- Helped revamp the topics taught in the Bootcamp.
- Will present a workshop on Python during each of the next two semesters.

Tutor, *McGill Computer Science Undergraduate Society Helpdesk*

Jan 2023 – Apr 2023 | Montreal, Canada

- Assisted undergrads with homework problems and course concepts.