

Harkeerat Singh Mayall

linkedin.com/in/hsmayall • github.com/mayallhs • hsmayall@gmail.com • +1(204)963-1502

EXPERIENCE

HUMAN COMPUTING & BIONFORMATICS LAB | STUDENT RESEARCH ASSISTANT, UNIVERSITY OF MANITOBA

May 2022 – Aug 2022 | Winnipeg, Manitoba

- Contributed to the **RNA Seq Analysis project** and comprehensively analyzed techniques to transform RNA sequences into analyzable data using Python.
- Used R to apply techniques and draw insights from raw data.
- Built a **pipeline of R commands in Python using subprocess module** to further visualize and study the data.

MYALSTONE – RANGERSTORK INDIA | IT SUPPORT SPECIALIST

Jan 2018 – Dec 2020 | New Delhi, India

- Remodeled the company inventory system by integrating Microsoft Excel and **integrated a program coded in Python and MySQL** for data management to easily access items in the inventory.
- Analyzed the inventory space to **identify peak sales time and predict inventory space** required for the following year **reduce deadstock percentage by 15.8%**.

PROJECT UNNATI – ENACTUS | VOLUNTEER DIGITAL LITERACY TEACHER

July 2019 – March 2020 | New Delhi, India

- Organized and coordinated **digital literacy workshops for 100+ women and children to enhance computer literacy**.
- **Imparted basic computer knowledge**, including internet usage and the basics of Microsoft applications like word, etc.

PROJECTS

STOCK NEWS SENTIMENT ANALYZER | Github

- Coded a program that **parsed stock news data on Python** for certain stocks from finviz.com using **BeautifulSoup4 library**.
- Utilized **NLTK Vader Library to conduct sentiment analysis** on news headlines.
- Retrieved prices from yfinance to **compare the impact of headlines on prices of the targeted stocks and correctly predicted the affect for 80% of them**.

BOOK STORE INVENTORY SYSTEM | Github

- Implemented an **inventory system using Python** that allows users to **add new books and keep track** of their information.
- Built an **easy-to-use, user-friendly** interface using Tkinter.
- Improved the **data management system by using MySQL** for retrieving and storing all the details.
- Modified this inventory system to use it to **store information of tools and products for a previous employer, reducing paperwork by 75%**.

NBA GAME PREDICTOR

- Coded a program in Python that **scrapes data** from basketball-reference.com of past seasons using BeautifulSoup4 library to **predict outcomes** of current games.
- Parsed the scraped box score data using Pandas and **trained a machine learning model using scikit library to make predictions**.

PORTFOLIO WEBSITE | <https://mayallhs.github.io> | Github

- Designed and built a portfolio website **to showcase personal projects and technical experience**. using **HTML, CSS & JavaScript** to create the design.

EDUCATION

UNIVERSITY OF MANITOBA

Undergraduate | Jan 2021 - April 2025 (Expected)

| Winnipeg, Manitoba, CA

Bachelors in Computer Science

GPA: 4.44 / 4.5

• **Relevant Coursework** : Data Structures & Algorithms, Databases Concepts & Usage, Introduction to Artificial Intelligence, Programming Practices and, Statistics & Computing.

AMITY INTERNATIONAL SCHOOL

High School | 2018-2020 | New Delhi, India

Class XII - **Grade: 97.8%**

• Placed in **the top 0.1%** out of the 2 million candidates.

SKILLS

PROGRAMMING

• Java • Python • C • C++ • R • SQL
• CSS • HTML •

LIBRARIES/Frameworks

• Tkinter • Numpy • Pandas • PyGame • Subprocess • NLTK • Beautiful Soup • scikit

TOOLS/PLATFORMS

• Git • Github • Photoshop • Wordpress •

AWARDS & ACTIVITIES

• Received the **Undergraduate Student Research Award**, joined Human Computing & Bioinformatics lab under Dr. Olivier Tremblay-Savard.

• **Dean's Honor List 2021-2022.**

• Chan Hon Kee Scholarship for achieving **Rank 1 in the Department of Computer Science**.

• 2022 ICPC North Central **NA Regional Contest Honorable Award**.

• Active Member of University of Manitoba's **Computer Science Students Association**, **DevClub** and **Women in Computer Science** societies.