Isha Sharma

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Education

University of Toronto **Toronto, ON**
Honors Bachelor of Science in Cell and Molecular Biology, Computer Science, and Statistics *Sep. 2019 – Apr. 2023*

Relevant Coursework

- Software Design
- Computer Organization
- Software Tools and Systems Programming
- Intro to the Theory of Computation

Experience

Co-President **Mar. 2021 – Present**
UofT AI *Toronto, ON*

- Recruited club directors and host weekly meetings with them.
- **Lead meetings of 60+ members**, focusing on discussing club events, new ideas, and suggestions from the members.
- Working with multiple teams to organize ProjectX, a 6 month machine learning research competition, and procure sponsorships.

Web Developer **Sept. 2020 – Present**
iGEM Toronto *Toronto, ON*

- Responsible for front-end development of website using **HTML, CSS, Javascript,** and **Bootstrap**.
- Debugged stylistic and deployment errors on my pages, as well as those of team members, and integrated code, using command line tools, with Git/GitHub.

LearnAI Logistics Lead **Apr. 2020 – Mar. 2021**
UofT AI *Toronto, ON*

- **Organized the implementation of**, i.e. mode of delivery, reviewing applications, hiring TAs, etc., of **a machine learning curriculum** targeted to foster undergraduate interest in ML at an earlier stage in their university careers.
- Worked on outreach to other technical clubs for joint club projects.

Dry Lab Researcher **Apr. 2020 – Sept. 2020**
iGEM Toronto *Toronto, ON*

- Created a dataset of **50,000 protein sequences** and utilized **Python, GPT2, PyTorch, Pandas,** and **Numpy** to make a machine learning model that can generate protein inhibitors for SARS-CoV-2 proteins.
- Modeled SARS-CoV-2 proteins using a protein modeling software, **PyMol**.
- Compiled findings and research into a presentation and research report.

Projects

Vision Checker **MedHacks 2020**

- Developed the front-end of a website that provides virtual eye exams for patients to ensure quality care during the COVID-19 pandemic, using **HTML, CSS, JavaScript, Boostrap** and **Heroku**.
- Used **Google Cloud** to store audio files and feed it into a scoring function on to compute a user's visual acuity score.
- *Winner of the Google COVID-19 Hackathon Fund.*

Euphoric Lyric **Hack the 6ix 2020**

- Utilized **Python, Keras, Numpy, TensorFlow,** and **audio2numpy** to develop a machine learning model that can generate lyrics for any audio sample with corresponding timestamp.
- Processed user inputted audio files in the back-end of the app and converted them to different formats.

Conferencing App **CSC207 (Software Design)**

- Designed a conferencing system using **Java** to simulate the common functions of signing up and attending conferences and events.
- Created a GUI that supports actions such as creating an account, signing up for an event, cancelling registration for an event, messaging other attendees, etc.
- Implemented object-oriented programming practices such as inheritance to create different account types and different events.

Skills

Programming Languages: Python, HTML, CSS, JavaScript, Java, C
Libraries/Frameworks: Pandas, Numpy, Bootstrap, jQuery, Node, Express, PyTorch, GPT2
Tools/Platforms: Git/GitHub, MongoDB, Heroku, Command Line, Figma, PyMol