

Hansini Mirchandani

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EDUCATION

University of Toronto | Statistics, Mathematics & Computer Science (HBSec) + PEY Co-op Sep. 2022 - April. 2027

- OOP in Python, Software Design in Java, Data Structures & Analysis, Systems Programming

PROJECTS at

VitaminSHE Web App

- Developed a web app for women's health using Java, Python, JavaScript, HTML, and CSS, deployed with Django to integrate frontend and backend, resulting in enhanced user experience and promoting global health awareness.

Heart Disease Prediction Model using Decision Tree Classifier

- During the IRES program under a mentor from the University of Waterloo, I worked with a fellow peer to develop a machine learning model to predict heart disease using Python and Pandas for data preprocessing and analysis, as well as selecting relevant features to improve model performance. I cleaned datasets, applied one-hot encoding and normalization, and trained a Decision Tree Classifier, resulting in a highly accurate model.
- Conducted an in-depth literature review and communicated complex findings effectively by writing a comprehensive research report. Demonstrated strong analytical skills in synthesizing results and presenting data-driven insights clearly and concisely, contributing to ongoing research in healthcare applications.

Personal Website

- Built a responsive website using React, Next.js, and Gatsby, focusing on component-based architecture.
- Implemented styled-components for dynamic, modular design and functional components for clean code structure.
- Leveraged Next.js file-based routing and server-side rendering to create fast, smooth navigation and enhance performance.

Web Scraper

- Developed a web scraper using Selenium, BeautifulSoup, Requests, and Pandas to extract athlete race and lap times from World Aquatics competitions, automating data collection and outputting structured Excel files for analysis. Analyzed the data using R.

WORK EXPERIENCE

Classroom Ambassador | Tech2U

August 2023 - Present

- Collaborated with faculty and Technical Co-pilots to provide real-time technical support, troubleshooting software and hardware issues and maintaining network stability. Adapted quickly to new technologies and effectively communicated complex technical concepts to non-technical users, resulting in minimal downtime and enhanced classroom operations.

Camp Counselor | STEM Camp

June. 2021 - August 2021

- Collaborated with counselors to design and lead STEM activities, balancing education and fun for a well-rounded camp experience. Mentored children in JavaScript and Python, adapting lessons to their learning styles, which boosted engagement and understanding. Led hands-on projects in robotics and game development, fostering creativity and problem-solving, resulting in increased enthusiasm.

VOLUNTEER

Director of Events | WiSC - Women in Science and Computing UTM

May 2024 - Present

- Led a team in planning and executing workshops, networking events, and speaker panels, which empowered women in STEM by providing skill development opportunities and industry connections, resulting in increased member engagement and a more supportive community.

President | Power of Code

March 2020 - Aug. 2022

- Led a team of 15 students in organizing and hosting online programming events, providing free instruction accessible to all skill levels, which increased participation and engagement within the tech community.

Homework Club - Big Brother Big Sister, Big Brother & Big Sister

Nov. 2017 - March 2022

- Developed personalized study plans, listening to students' specific challenges and learning preferences, resulting in improved academic performance and confidence.
- Led one-on-one tutoring sessions, fostering a supportive environment and addressing key areas of difficulty, leading to significant improvements in grades and self-esteem.

CERTIFICATIONS

- WHMIS Certification, Ministry of Labour Health and safety Certification, First Aid Certification

TECHNICAL SKILLS

Programming Languages: Python, Java, C, SQL, R, Excel

Frameworks & Libraries: Django, Pandas

Web Development: Backend (Python, Django), Frontend (HTML, CSS, JavaScript), Responsive Web Applications

