Sont 2022 . Procent



Languages: Python, C++, C, MATLAB, HTML, CSS, JavaScript

University of Terente

EDUCATION

Chiversity of Toronto	Sept 2022 - Frescht
Bachelor of Applied Science in Engineering Science (Machine Learning)	
CS and Math courses: Computer Programming I, Data Structures & Algorithms, Linear Algebra, Calculus I & I	I
Simon Fraser University	Sept 2021 - Apr 2022
Grade 12 Dual Enrollment: Computer Programming I & II	
EXPERIENCE	
UofT Cognitive Neuroscience Lab Machine Learning Researcher	May 2023 - Present
 Designing CNN architectures and training neural networks to optimize robotic arm classification and grasp predictions in modelling biological control systems, reaching a test accuracy of 81.25% (classification) and 78.25% (grasping) Designed an automated MATLAB system and performed EEG experiments on 15 participants 	
Syllabyte Full Stack Developer	May 2023 - Present
• Creating a web-based productivity platform with user authentication using React, Django, and Python	
aUToronto Mapping Team Developer	Sept 2022 - May 2023
 Built a self-driving car: maintained updated, and tested a large Python codebase to automate HD maps for various outdoor environments with JOSM 	
Illuminaite Academy Founder, Co-President	Oct 2020 - Present
• Increasing accessibility to interdisciplinary CS/AI education, organized 10 events, garnered 275+	
participants from 42 cities and 11 countries, 2 time grant award recipient	
 Pioneered organizing the first high school AI Ethics Competition in North America 	
 Expanding into 5 universities including UofT, McMaster, UBC, SFU, and York University 	

PROJECTS & AWARDS

NSBE Hacks 2023 | Best Overall Project and Winner of the Co:here Challenge

Articulator

• Translating speech to sign language to bridge barriers for the hearing-impaired. Developed with Cohere, utilized 6 AI models to recognize, detoxify, analyze sentiment, and launch result

Toronto Health Datathon 2023 | First Place Winner

Cervical Spine Fracture Detection

• Detecting cervical spinal fracture from CT scans and predicting fracture location through segmentation masks, to reduce hospital wait time for patients

European Space Agency CanSat Competition 2022 | International Finalist and Top Final Report (out of 25 countries) RotaSat

- Designed and built a can-sized satellite with a radio data transmitter and active attitude control system, received 81KB of data over telemetry downlink
- Developed the ground control system software and post-launch data analysis

OTHER AWARDS: National Top Project (Canadian CanSat Design Challenge)

International Student Conference on Artificial Intelligence 2021 | Best Presenter Award

Deep Reinforcement Learning Controller for Indoor Farming

• Implemented and trained a Deep Q-Learning Neural Network for the autonomous controller, employing the experience replay memory technique

OTHER AWARDS: Conference-Published Paper (International Student Conference on Artificial Intelligence 2021)

National Finalist (Ingenious+ Innovation Competition 2022)

Provincial Top 5 Finalist (BC Youth Innovation Showcase 2021)

Provincial Top Project: Greenhouse Growers' Award (BC/Yukon Science Fair 2021)

Facial Emotion Recognition Model using Classification and Convolutional Neural Networks (2020)

• Classified images dataset using various classification algorithms, a convolutional neural network, and implemented the trained model in real time applications