ADAM TABACK

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EDUCATION

University of Toronto   September 2022 - May 2026
B.A.Sc in Electrical and Computer Engineering   *cGPA: 3.89*

· Introduction to Computer Programming (Python), Final Mark: 96% ⌀
· Data Structures and Algorithms (C), Final Mark: 100% ⌀
· Programming Fundamentals (C++/OOP), In Progress
· Digital Systems (Verilog & FPGA), In Progress

RESEARCH EXPERIENCE

Risk Stratification for Improved Preeclampsia Prediction ⌀   Summer 2023
Summer Researcher with Professor Brian Cox   *University of Toronto*

· Used unsupervised machine learning techniques to find subtypes of Preeclampsia and Pregnancy for better prediction and understanding of disease
· Created a novel workflow utilizing subsets of data and Ensemble Clustering to reduce bias when creating groupings. Wrote a suite of functions and objects to streamline workflow.
· Used Scikit-Learn and Pandas, as well as SciNet High Performance Computing Clusters
· Presented at UnERD (Undergraduate Engineering Research Day) and writing manuscript for publication

SKILLS

Computer Languages	Python, C, C++, R, Verilog, Matlab, Java
Operating Systems	Linux, Mac OS, Windows
Packages	Scikit-Learn, TensorFlow, Keras, Pandas, Matplotlib
Tools	High Performance Computing (HPC), Quartus, Modelsim, LaTeX, Github, Git, Microsoft Office (Word, Excel, PowerPoint, Outlook)
Professional Skills	Collaboration, Problem Solving, Leadership, Effective Communication

HONOURS AND AWARDS

· University of Toronto Excellence Award - HLS, 2023
· Dean's List Fall 2022, Winter 2023

WORK EXPERIENCE

Teaching Assistant - ESC180 (Introduction to Computer Programming)   *Fall 2023*

· Ran weekly labs, helping students complete lab assignments and assessing their performance
· Received positive feedback from students for clear communication and quick debugging
· Marked Midterm and Final Exam

INTERESTS/COMMITMENTS

Food Bank Volunteer (Fort York Food Bank), Hart House Orchestra (Violin), Skule StageBand (Guitar), Bass Guitar, Running