HARRISON PARK

+1 (587) 439-8300 | harrisonpark2004@gmail.com | Toronto, ON, Canada | linkedin.com/in/harrison-p-b00772273/

EDUCATION

University of Toronto **September 2022 - June 2026**
Bachelor's, Physics and Statistics Dual Major *GPA: 4.0*
- Minor in Computer Science
- President's Scholar, awarded $7000; Dean's List Scholar, 2023, 2024, and 2025

PROJECTS

Cocoa Price Time Series Forecasting
- Developed skills relevant to financial and economic time series forecasting, predicted 4 months future prices with MAPE 7%
- Analyzed cross-correlations with local climates, CPI, and exchange rates; utiilzed SARIMAX, regression, GARCH, and recurrent neural network models

Heart Failure Multiple Regression Analysis
- Performed data analysis using multiple regression on the effect of covariates on the ejection fraction of heart failure patients
- Identified key correlations between age, sex, serum sodium, and platelet count with ejection fraction and proposed guided treatment strategies based on findings; aggregated findings into a data report along with a data-informed poster

Steam Game Review Sentiment Analysis using ML
- Developed an interactive dashboard to analyze Steam game reviews using DistilBERT for sentiment classification.
- Built visualizations with Seaborn, Altair, and wordcloud; deployed the dashboard using Streamlit Cloud.
- Tech stack: Python, pandas, scikit-learn, NLTK, Hugging Face Transformers, Streamlit.

CERTIFICATIONS

Google Data Analytics Professional Certification (January 2025 - May 2025)
- Preparation for junior level roles in data analytics. Learned data-oriented and business intelligence tools such as Excel, SQL, Tableau, and R. Demonstrated ability to prepare, process, analyze, and share data for thoughtful action.

RELEVANT COURSEWORK / EXPERIENCES

STA314: Statistical Methods for Machine Learning
- Developed skills in ML workflows and theory, proficient in both regression and classification problems. Models include GDA, Random Forests, PCA, SVMs, and more.

STA457: Time Series Analysis
- Developed proficiency with various time series models, including SARIMAX, GARCH, and ETS, in R.

PHY407: Computational Physics
- Improved skills in data modelling and numerical integration, Fourier analysis, PDE solving, and Monte Carlo techniques, in Python.

PHY408: Time Series Analysis
- Gained further data modelling skills such as spectral analysis, physical modelling, convolutions, filtering, and interpretation.

PHYSCAP Mentorship Program
- Participated in the Physics Career Accelerator Program, meeting with alumn mentor Sasha Manu to guide career development

PROFESSIONAL EXPERIENCE

Canada Post **Calgary, AB, Canada**
Postal Worker *May 2023 - August 2023*
- Applied attention to detail and data organization skills to track and manage high volumes of parcels and letters
- Strengthened ability to work with structured data: managing address verification, scanning systems, and tracking information
- Worked collaboratively in a high-paced environment, reinforcing strong communication and team coordination

SKILLS

Skills: Python, Data Analysis, R, Modelling, Tableau, SQL, Java, Time Series, Machine Learning