


CALVIN CHAN

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TECHNICAL SKILLS

Languages: Python, SQL, R, C, LaTeX, Markdown

Libraries: NumPy, Pandas, SciPy, SymPy, Matplotlib, NLTK

Database Management: MySQL

Data Visualizations: Tableau

EDUCATION

BrainStation | 2023

Professional Certificate - Data Analytics

University of Toronto | Class of 2023

Honours Bachelor of Science - Physics & Astrophysics

PROJECTS

BrainStation | *Final Project*

September 2023 – October 2023

- A final project as part of the data analytics course, using Letterboxd movie reviews to draw insights for industry professionals, content creators, and platform creators in understanding audience sentiment, engagements, and trends
- Cleaning data using Excel and processing it through SQL queries creating tables and joins for analysis
- Analyzing from various perspectives including sentiment, engagement, time, and genre analysis using Tableau and presenting findings as a team to the target audience
- Classifying written reviews using natural language processing (NLP) through a Lexicon-based approach in Python with the NLTK package

Canadian Institute for Theoretical Astrophysics | *Undergraduate Researcher*

September 2020 – December 2020

- Independent thesis project co-supervised by Professor Ue-Li Pen and Dr. Luke Pratley testing reconstruction algorithms on real and simulated dispersion measure time series data and performing statistical analyses
- Demonstrating oral and written skills through research objectives, literature reviews, proposals, reports, and presentations along with strong communication skills through weekly meetings with supervisors and the research team
- Analyzing and visualizing reconstructed data using Python and utilizing statistical correlations to draw conclusions

Dunlap Institute for Astronomy & Astrophysics | *Summer Research Intern*

May 2020 – August 2020

- Summer Undergraduate Research Program (SURP) supervised by Dr. Luke Pratley testing new reconstruction algorithms on rotation measure data from complex magnetized mediums by developing models in Python and assessing the outcomes
- Analyzing reconstructed data set outcomes with various initial conditions and comparing them to the predicted model
- Developing interpersonal skills with supervisor as well as organization skills working independently and in a team setting

EXPERIENCE

GettaTutor | *Tutor*

October 2021 – Present

- Canada-wide tutor center helping children from kindergarten to grade 12 in all subjects
- Tutoring high school students in math and chemistry, assisting students with problem-solving
- Developing communication skills by effectively conveying complex ideas to students

Markham Taekwondo Academy | *Assistant Instructor*

September 2013 – September 2016

- Motivating adults and children by leading interactive and engaging lessons
- Developing skills, discipline, and self-confidence amongst students
- Showing strong organizational skills through lesson planning and carrying it out accordingly