Aadi Kanwar

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EDUCATION

University of British Columbia
Vancouver, BC
Major in Computer Science; Current GPA: 4.33/4.33
Sept. 2023 - Apr. 2027

EXPERIENCE

UBC FinTech
Vancouver, BC
Founder and President
Sept. 2023 - Present

- **Initiative**: Noticed a lack of connectivity between machine learning and finance at UBC; created a club that allows one to build projects such as classifying a stock as a good current purchase or not, or predicting the price of a stock using machine learning in languages such as Python and R.

Inspirit AI
Calgary, AB (remote)
Software Developer
Jul. - Aug. 2021

- **Description**: Worked within a team of 5 members from around the world and a mentor from Stanford in creating a music recommendation system using data from Spotify.
- **Award**: Ended up winning a leadership award and certification for aiding peers with their code, at the end of the program

PROJECTS

- **Tesla Stock Price Prediction**: Predicting the price of a stock given previous financial data
  - **Idea**: Created a software that allows one to predict the upcoming price of a stock of choice, in a given time frame. Idea was spread to many within the UBC FinTech club.

- **Email Spam Classification**: Classifying E-Mail's as "Spam" or "Not Spam" in R
  - **Idea**: Implement a simple K-Nearest-Neighbors algorithm to classify an incoming email as spam or not, via the various substrings within the email.
  - **Aside**: Collaborative project completed with a group of three others, algorithm is implemented solely in R.

- **Typing Speed Application**: Creating a Typing Speed Application in Java
  - **Idea**: Created a beginner-friendly typing speed application in Java using concepts of persistence and JSON as well to allow the user to save their progress.
  - **Aside**: Independent project created for CPSC 210: Software Construction – a second-year course at the UBC.

- **Directed Reading Project (DRP)**: Visualizing number theoretic topographs in Python
  - **Idea**: Create a Python script that is able to take a complex notion such as number theoretic topographs and visualize them easily on a computer, as opposed to drawing them by hand.
  - **Aside**: Working on this project with a PhD student from the University of Arizona (Gaurish Korpal); looking to present this at the next Candaian Undergraduate Mathematical Conference.

- **Brief Introduction into Mathematical Modelling**: Using 3Blue1Brown's Manim library in Python to model mathematical concepts
  - **Idea**: For now I have created a demonstration on how to solve the Gaussian Integral via polar coordinates using Python's Manim library.
  - **Aside**: Independent projected created during first semester of Freshman year at the UBC; I intend to extend this project to various other mathematical phenomena. Currently, I aim to prove that the area of the triangle created by a tangent to $y = \frac{1}{x}$ and its intersection with the x and y axes has an area of 2 units squared, using Manim.

PROGRAMMING SKILLS

- **Languages**: R, Python, Javascript, Java, SQL, Tex — **Frameworks**: pandas, scikit-learn, Manim, infer, Git

RELEVANT COURSEWORK (UBC COURSES)

- CPSC 110: Systematic Program Design, CPSC 121: Models of Computation, CPSC 210: Software Construction, MATH 121: Honours Integral Calculus, MATH 223: Honours Linear Algebra, MATH 226: Honours Calculus III, CPSC 221: Design and Algorithms, CPSC 213: Computer Systems