



Vivaan Wadhwa

3rd Year Computer Science & Statistics Student

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TECHNICAL SKILLS & Certifications

- Languages: Java, Python, C/C++, SQL, HTML/CSS*, R
- Tools: Git, GitHub, Microsoft Excel, Tableau*, Terminal
- Software: Unity, Maya, Blender, Autodesk Fusion 360
- Certifications:
 - Python for Data Science and Machine Learning Bootcamp*
I gained proficiency in Python for data analysis and machine learning, with a focus on implementing algorithms. I also learned to work with NumPy and Pandas for data manipulation, created visualizations using Matplotlib, Seaborn, and Plotly, and explored Natural Language Processing and Spam Filters.

TECHNICAL WORK EXPERIENCE

InfiniAI

Software Developer Intern

Feb. 2022 – Apr. 2022

Vancouver, BC

- Collaborated with a team to design and implement a system that used AI and ML to recognize faces in real-time.
- Implemented computer vision techniques such as face detection, feature extraction, and recognition using OpenCV which used a database of over 100,000 photos.
- Conducted thorough testing and debugging of the face recognition system to ensure reliability and an accuracy of 75%.
- Participated in code reviews and implemented feedback from senior developers to improve the accuracy and efficiency of the model.
- Investigated the feasibility of integrating the model into road safety and theft prevention systems.

TECHNICAL PROJECTS

Heart Disease Prediction | R, KNN, Git

Feb – Apr 2023

- Utilized a publicly available dataset from the UCI Machine Learning Repository
- Conducted in-depth EDA, including the creation of multiple scatterplots to visualize and analyze the relationships between various predictor variables and the target variable.
- Employed Grid Search and Cross-Validation techniques to determine the optimal value of 'K' in the K-Nearest Neighbors (KNN) classification algorithm, ensuring the best model performance.
- Orchestrated effective teamwork among four team members, with GitHub serving as the central hub for streamlined collaboration, version control, and synchronized code management.

Turn-Based Card Game | *Java, Swing, Git*

Jan – Jul 2022

- Engineered a fully functional GUI using basic Java libraries and Swing, allowing users to play a card game against a computer opponent.
- Integrated an Event Log feature, which tracked all changes made during gameplay for improved user experience.
- Added save and load functionality, providing users with the ability to save their progress and pick up where they left off

Face Recognition | *Python, dlib, OpenCV, face recognition*

Jan - Apr. 2022

- Developed a Python face recognition software, which can recognise different faces and can even maintain a registry of recognised faces.
- Used OpenCV and dlib to develop the algorithm to identify a face.
- Deployed a model of 75% accuracy.
- Added the functionality to play” Rock, Paper, Scissors” with CPU.
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MP3 Downloader and Player | *Python, Tkinter, Matplotlib, MySQL*

Jun – Sep. 2021

- Developed a Python desktop MP3 player, following OOP design principles.
- Allowed the user to download songs directly from YouTube.
- Used an online SQL server allowing users to have personal accounts.

ADDITIONAL WORK EXPERIENCE

Alma Mater Society UBC

Catering Associate

Oct. 2022 – Sep. 2023

Vancouver, BC

- Successfully delivered catering orders to multiple locations on UBC campus
- Direct interaction with the customer to facilitate drop off and pickup
- Ensured safe delivery and pickup of multiple orders in 1 day.

EDUCATION

University of British Columbia

BSc, Computer Science & Statistics

Sept 2021 - May 2025

Vancouver, BC

- GPA: 3.95
- Placed on the Dean's Honor List in both my first and second year.

****- Currently Acquiring***