VEDANT
JAIN

New Westminster, BC
+1 (604) 339 5074
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linkedin.com/in/vedant-jain-16a654235

TECHNICAL SKILLS

Languages: C, C++, C#, Python, Pytorch, Java, JavaScript, SQL, R, Matlab, HTML, CSS, Sass, TypeScript, Swift, PHP

Frameworks/Tools: React, Ajax, GSAP, NodeJS, Redux, Three.js, Jquery, Bootstrap

Others: Windows, Linux, Mac Os, Git

PROJECTS

Mountain Madness, SFU CSSS | LOST IN TRANSLATION

Hackathon   **JAVA, GOOGLE API (FEBRUARY 2023)**

- Developed a **peer-to-peer** (P2P) Chat System using **JAVA**, demonstrating strong programming skills.
- Utilized **Java Swing** to craft an intuitive **Graphical User Interface** (GUI), enhancing user experience.
- Achieved swift **message transmission** by optimizing the message routing process, enhancing overall system performance.

Computer Vision| Digit Recognition with Convolutional Neural Networks

Computer vision (CMPT 412)   **MATLAB (January 2023)**

- **Engineered** and trained a robust **Convolutional Neural Network** (CNN) for Optical Character Recognition using **MATLAB**.
- Implemented the **neural network** architecture in **Python** and conducted extensive training on the widely recognized MNIST dataset.
- Achieved an impressive **accuracy rate** of 89%, surpassing industry standards for digit recognition tasks.

Database Systems | Bank Management system

Database Systems (CMPT 354)   **SQL (December 2022)**

- Developed a comprehensive **Bank Management System** utilizing **SQL**, showcasing expertise in database design and management.
- Utilized **SQL queries** to handle data manipulation, such as adding, updating, and retrieving customer and transaction data.
- Established a centralized platform that streamlined the management of customer accounts and transactions, enhancing operational efficiency and data accuracy.

Computer Vision | Image-classification

Computer vision (CMPT 412)   **Python, Pytorch (February 2023)**

- Led the development of an **advanced image classification system** using deep **convolutional neural networks**.
- Enhanced model performance by **expanding** and **deepening** the network architecture, enabling more intricate feature extraction from the **Caltech-UCSD Birds dataset**.
- Achieved a remarkable improvement in classification accuracy, with the model attaining an impressive accuracy rate of approximately 62%.

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EDUCATION

BSc Computer Science | Simon Fraser University
September 2020 – May 2025(Expected)

International Baccalaureate (IB) Diploma| MIT Vishwashanti Gurukul
June 2018 – May 2020

EXPERIENCE

Web developer | Vibrant Dreams
October 2019 – March 2020
- Conceptualized, designed, and deployed a dynamic **website** for an Event Management company, showcasing expertise in web development.
- Leveraged **HTML**, **Sass**, and **JavaScript** to craft an engaging and user-friendly **Graphical User Interface** (GUI).
- Enabled the client to reach a broader audience through online advertising, leading to increased visibility and business growth.

VOLUNTEER EXPERIENCE

The "Human Feedback" in RLHF | ROSIE Lab
January 2023 – March 2023
- Contributed to a Computer Vision Machine Learning program spearheaded by a team of leading PhD candidates by accurately cropping and labeling images for the program to be trained on as its parameters.
- Contributed to a participatory soundscape analysis project in collaboration with a leading PhD research group in artificial intelligence, to enhance the efficacy of machine learning models by providing contextualanalysis and subjective evaluations of audio stimuli based on human perceptions of environmental awareness and emotional comfort.

NON-TECHNICAL SKILLS

Problem-Solving and Analytical Skills:
- Developed strong problem-solving and analytical skills through rigorous coursework and engaging inpersonal projects. Proficiently approached complex problems, applying critical thinking and logical reasoning to identify innovative solutions.
- Utilized a systematic and analytical approach to gather and evaluate data, enabling effective decision-making and successful outcomes for both coursework and personal projects.

Communication and Teamwork Skills:
- Demonstrated exceptional communication and teamwork skills through active participation in variousprojects during CMPT classes. Collaborated effectively with team members, fostering a positive and productive work environment.