

Vedant Ashish Jain

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Canada

My Website

in Vedant Jain

My github

Technical Skills

Languages: Python ,C, C++, C#, Java, HTML, CSS, Sass, TypeScript, JavaScript

Frameworks/Tools: Keras, TensorFlow, PyTorch, React, Ajax, GSAP, NodeJS, Redux, Three.js, JQuery, Bootstrap, Git, Latex, Azure, AWS, Unity

Projects

Fine-Tuning of Wav2Vec2 for Speech-to-Text Conversion, NLP, Python, Pytorch

- Enhanced a pre-trained Wav2Vec2 model for speech-to-text (STT) applications by fine-tuning it on the LJ Speech dataset, which features a single speaker. The project aimed to advance automatic speech recognition (ASR) technology.
- Implemented convolutional neural networks (CNN) for high-level feature extraction, coupled with transformers for language modeling.
- Achieved a word error rate (WER) of 28%, indicating a significant enhancement in model accuracy. Successfully deployed the fine-tuned model for live transcription services, where it demonstrated exceptional performance and reliability.

Burnaby, Canada
Jan 2024 to April 2024
Computer Linguistic

NeuroVision AI, Biomedical Computing, Python, TensorFlow

- Worked within a team of five to engineer a sophisticated U-NET convolutional neural network with 28 layers, focusing on detecting and analyzing brain tumors in MRI images.
- My contributions were critical in ensuring comprehensive training and validation of the model for enhanced accuracy and reliability.
- Played a key role in the team that accomplished an exceptional accuracy rate of 99.48%, with a 1.64% loss and a 59.87% dice loss.

Burnaby, Canada
Oct 2023 to Jan 2024
Computer Vision

Image classification, Neural Networks, Python, Pytorch

- 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

Burnaby, Canada
Feb 2023 to May 2023
Computer Vision

Vibrant Dreams, Web development, Designing

- 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.

Mumbai, India
Oct 2019 to March 2020
Full Stack

Education

BSc Simon Fraser University, Computer Science

Sept. 2020 to September 2024

- **Coursework:** Software Development, Computer Architecture, Algorithms, Artificial Intelligence, Machine Learning, Data structures.

IB MIT Vishwashanti Gurukul, IB Diploma

June 2018 to May 2020

- **Coursework:** Physics, Math, Chemistry, Computer Science, English, Hindi .

Volunteer experience, Certificates

The "Human Feedback" in RLHF:

- Contributed to a computer vision machine learning project led by a team of PhD candidates, by accurately cropping and labeling images for training the model.

Neural Networks and Deep Learning (DeepLearning.AI):

- Completed a Specialization course with a grade of 99.50%.

Non-Technical Skills

Problem-Solving and Analytical Skills:

- Developed strong problem-solving and analytical skills through rigorous coursework and engaging in personal 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 in various projects, promoting a productive work environment.
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