Paru

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Education _

Monash University, Clayton

PhD in Computer Vision

• Title: Application of Diffusion Models in limited supervision learning

Indian Institute of Technology Ropar

B.TECH. IN COMPUTER SCIENCE AND ENGINEERING • CGPA: 9.21/10

Central Board of Secondary Education

D.A.V. PUBLIC SCHOOL, SECTOR-3, KURUKSHETRA

AISSCE (Class 12): 95%

• AISSE (Class 10): 10/10

Skills

Programming Languages Python, C, C++, Javascript, SQL, PHP, HTML, .Net Core, C# Frameworks / Libraries PyTorch, TensorFlow, OpenCV **Softwares / Tools / OS** Matlab, ETFX, Git, Linux(Ubuntu)

Internships/Projects _

Nasdaq Chrome Extension

NASDAO INC.

- Developed a chrome extension for users to be able to search and keep track of upto 6 favorite stocks, get the latest news headlines and see a snapshot of the market in real time.
- Additionally, user's behaviour is tracked with the help of Google Analytics to keep track of trending stocks and news articles.
- Aimed towards increasing the traffic to Nasdaq website.

Other mini-projects

NASDAQ INC.

- Creating a dotnet hosted service to inculcate Google Analytics API based Trending Articles/Stocks To Nasdaq.com.
- On the backend, created new SQL DB jobs for data feeds from new vendors.
- On the UI side, worked towards improving the performace metrics of Nasdaq webpages by reducing Cumulative Layout Shift.

Article Sentiment Analyzer

Nasdao Inc.

- Articles present on Nasdaq's official website will go through this sentiment analyzer to make sure that they aren't inappropriate for either its own or its listed companies' image.
- · Calculating Nasdaq-specific sentiment on top of the results of Google's NLP API.
- Building a PHP API for backend and the user interface in the form of a browser extension.

Zero Shot Object Detection

WITH DR. ABHINAV DHALL

- Exploring state-of-the-art Object Detection models and modifying their architecture to make them suitable for Zero Shot Object Detection.
- Making a new ZS-YOLO model out of the YOLO model by adding separate Object localization and Semantic prediction layers to get the confidence prediction.
- The Average Precision achieved on PASCAL-VOC Dataset was better than that in the work followed because of the extra trainable layer introduced at the end.

Android Emulator

UNDER DR. SMRUTI RANJAN SARANGI, ASSOCIATE PROFESSOR, IIT DELHI

- Extracted instruction level execution traces from Google's Android Emulator and ran them on an architectural simulator Tejas ARM.
- Created a generic graph library for the Tejas simulation system using matplotlib package of python.

Relevant Courses

- Computer Science: Advanced Computer Vision, Artificial Intelligence, Machine Learning, Digital Image Analysis, Operating Systems, Algorithm Design and Analysis, Data Structures, Database Application Programming, Computer Architecture
- Mathematics: Discrete Mathematics, Linear Algebra, Real Analysis

Academic Achievements

• Recipient of Merit Scholarship for outstanding performance (top 7% students) in the first year at the institute.

Victoria, Australia Feb 2022-December 2023

Punjab, India July 2016-June 2020

Haryana, India

June - August 2021

Bangalore, India

Bangalore, India

July 2020 - Jan 2022

Bangalore, India

June - July 2019

Ropar, India

Jan - May 2019

Delhi, India

May - July 2018

- Secured an All India Rank(AIR) of 1509 (Top 0.007%) in JEE Advanced-2016 (Conducted by IITs).
- Received scholarship for clearing **National Talent Search Examination**-2012 conducted by National Council of Educational Research and Training.
- Secured All India Rank 179 in 2013 and All India Rank 112 in 2014 in National level Science Talent Search Examination conducted by Unified Council.
- Got All India Rank 1 in the Sanskrit Pratiyogita organized by the D.A.V. College Managing Committee in 2011.

Extra-Curricular Activities _____

- Served as a member of Enactus, IIT Ropar in the projects **Sakshar** and **Prabhas**.
- Participated in the Inter IIT Cultural Meet 2017 (Group Dance).