Anirudh Joshi

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Education

2019 - 2023	BTECH in CS at **PESU**	(GPA: 8.41/10.0)**(88th percentile in CSE dept.)**
2019	Class 12th CBSE at **AECS Magnolia**	(90.2%)
2017	Class 10th CBSE at **PSBB LLA**	(9.2/10.0)

Skills

Languages	Python, R, C, C++, Go Lang, Java, Javascript, Matlab
ML, Data Science Libraries	Tensorflow, Pytorch, Open CV, NLTK, Spacy, Pandas, Scikit-Learn

Experience

ML Intern at PESU Venture Labs July 2022 - present

1) Weather prediction model for Frizzle Weather using incremental learning.
2) Resume Parser, Recommend skill assessments to new users, Recommend candidates to recruiters on the basis of Job Description, Glassdoor Scraper to extract latest job skills using NER for Assertify
3) Currently Working on a Journal Recommender engine given an Abstract of a paper and a Research Paper Summarization tool for Scholarit(A startup in the making that wants to provide services to research scholars)

Academic Intern at National University Singapore June 2022

Built a multi-label classifier capable of classifying input resumes into ten IT roles using BERT and distilled BERT.

Research Intern at ISFCR PESU June 2021 - December 2021

Built a tool to detect deepfake videos using Lucas-Kanade equation for optical flow calculation of facial landmarks and a Bi-LSTM model that achieved 96% accuracy.

Projects

AUTOML for Structured Data Demo Website

Available till January 28th, please check my portfolio site for the website link after Jan 28th.

Attention Based Evolution For Image Classification **Soon to be published**

Built a novel approach that uses Convolution Block Attention and Neuroevolution to evolve CNN topologies using genetic algorithms and the principles of mutation and crossover. The first evolutionary approach to incorporate an attention mechanism.

Deblurring Using GANs Link to Code

Implemented DeblurGAN from scratch and trained on the GoPro dataset.

Toxic Comments Detection Link to Code

Built a LSTM+CNN model to detect toxic comments on the Toxic Comments Detection Challenge on Kaggle made use of Wiki-News pretrained word-embeddings and Talos for hyperparameter optimization of the model.

DeepFake Detection Link to Code

Used DLib library to extract facial landmarks from image frames with high precision, then calculated the optical flow of facial landmarks using Lucas-Kanade equation and then passed through a Bi-LSTM model to achieve 96% accuracy.

Multi-Label BERT Classifier For Resumes Link to Code

Built a multi-label classifier capable of classifying input resumes into ten IT roles using BERT and distilled BERT.

Image Captioning Flickr-8K Link to Code

Used VGG-16 and Inception-V3 for feature extraction and then beam-search for caption prediction.

Stock Market Prediction Link to Code

Predicting stock prices using Time-Series Forecasting methods and ML models for Reliance stock.

Email Spam Detection Using Spark Streaming Link to Code

Classified emails in Enron spam detection dataset using SparkML in python. Data was live streamed in batches using Spark and ML models were trained in an incremental way to train each batch as it was streamed.

Network Attacks Detection Link to Code

Detected Network Attacks using various classical ML algorithms on the UNSW dataset.

Football Players Team Detection Link to Code

Built a multi-class classifer using Efficient Det to detect which team a player belonged to in an image frame, made dataset and labelled data using Roboflow.

Pending Patents

A System And Method For Clustering And Categorizing Large Datasets

Developed a unique pipeline to categorize documents on the basis of their context and extract essential insights from document categories using the principles of BERT, autoencoders, clustering and Topic Modeling methods. The patent has been successfully filed in the Indian patent office and is currently pending approval.

Society Memberships

CODS (Community Of Data Science)

-Conducted Online workshops on Webscraping Covid-19 Data to build a dashboard for data visualization during the Covid-19 lockdowns.
-Did Network Attacks Detection as an individual project to gain entry into the club (linked above).
-Built a mask detection tool as part of a group project.
-Volunteered for multiple hackathon, datathon events conducted by the club for junior students.

MCAOWA (NGO) Link to Certificate

I have been a volunteer in cleanliness drives since my bachelor's degree started.

Certificates

MTA (Microsoft Technology Associate) in Python

Deep Learning Specialization Stanford Online

Machine Learning Stanford Online