Nishanth

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Education

International Institute of Information Technology, Hyderabad 2017 – 2021
B.Tech Computer Science, CGPA: 9.25/10 *Hyderabad, India*

Sri Chaitanya Jr. College 2015 – 2017
Senior Secondary, IPE, , Percentage: 97% *Hyderabad, India*

Sri Chaitanya School 2013 – 2014
Secondary, SSC, CGPA: 9.7/10 *Hyderabad, India*

Skills

Languages C, C++, Python, Bash, Go, Matlab, SQL

OS GNU/Linux

WebDev HTML5, CSS, JavaScript

FrameWorks Flask, Spring boot, Kafka, Cassandra, Spark, ReactJS, OpenGL, WebGL

Experience

Google August 2021 – Present
Software Engineer *Bangalore, India*

- Working in Google Cloud Networking
- Working in 4G LTE Technology

Jio AI May 2020 – July 2020
AI Intern *Hyderabad, India*

- Worked under Dr. Balakrishna Pailla
- Worked in the field of medical imaging.
- Worked on the project Generating Real Looking X-Ray synthetically.

Centre for Visual Information Technology, IIIT Hyderabad June 2019 – 2021
Student *Hyderabad, India*

- Working under Prof. C.V.Jawahar
- Working in the field of two wheeler driver assistance systems.
- Worked on the Driving Score Predictor project.

Centre for Visual Information Technology, IIIT Hyderabad August 2020 – 2021
Student *Hyderabad, India*

- Working under Prof. Jayanthi Sivaswamy.
- Working in the field of Image de-Blurring.
- Worked o=in the Blind Image de-Blurring project.

EyeDentify Systems November 2018 – December 2018
Software Intern *Hyderabad, India*

- Built a REST Application.
- Built Cross Platform using Xamarin Platform in Visual Studio.
- Used spring boot platform to build backend.

Projects

Driving Score Predictor

- This project intends on rating driving based on video obtained from head-mounted camera.
- We extract various vision and non-vision features for rating a driver.

Synthetic X-Ray Generation

- This project intends on generating synthetic x-rays from 3D models of lung.
- Created a new method to use ray-tracing algorithm to generate synthetic x-ray.

Signature Analysis

- This projects intends on improving the results of the paper Automatic Signature Stability Analysis And Verification Using Local Features.
- This project intends on classifying forged signatures from geniune.
- We extract local features using SURF.
- Compute the distance between key points and compare these distance to classify as forged and geniune.

Affine Transform Removal

- This projects intends on reconstructing images after removing affine transformation in face images.
- This project intends on using auto-encoders to represent images in lower dimensions.
- We feed rotated images using python libraries to the auto-encoder and the expected image is given as base image.

Ftp Server

- A simple ftp server to host files and execute simple IO commands.
- Used simple socket programming in Java to build server and client.

Mini SQL

- A simple application to execute a limited set of SQL commands.
- Used sql-parser in python to parse the sql statements.

Sentimental Analysis on Twitter Feed

- This project intends on identifying twitter feed on specified movie.
- Then run sentimental analysis on this data to predict movie rating.
- Used Naive Bayes Classifier to build sentimental analysis.
- Used Kafka to get tweets in real time from twitter.
- Used Spark to analyze sentiments of tweets in real time.
- Used Text Blob to build sentimental analysis.

Identify Audio Similarity

- This project intends on identifying how close are two audio signals.
- Used Mfcc features from audio signals to cluster data.
- Used KMeans Clustering on these features for similarity.

Extreme Tic-Tac-Toe Bot

- Developed a python application to play a complex version of Ultimate Tic-Tac-Toe.
- Used Monte Carlo Tree Search to generate data for linear regression.
- Used Zobrist Hash, Min Max Algorithm, Alpha Beta Pruning.

Terminal

- Built an interactive shell terminal using C.
- Implemented redirection, piping, handling background processes and signals.

Proxy Server

- Built a proxy server using python.
- Server to reject requests out of college net.

Achievements

Academics Been in Dean's List in all Semesters

JEE Mains All India Rank: 513 in 12 lakh applicants

RMO selected Regional Mathematics Olympiad

SIPhO Rank: 73 in South Indian Physics Olympiad.

Interests

- Deep Learning
- Computer Vision
- Video Analysis
- Data Structres and Algorithms