

# Pranav Raikote

## COMPUTER VISION PRACTITIONER

Passionate researcher and practitioner in Deep Learning having 2+ years of experience in Computer Vision & allied domains. Seeking an opportunity to exhibit my skills and contribute to the organization with my expertise.

pranavraikote@gmail.com

+91-9448210677

pranavraikote.github.io

github.com/pranavraikote

medium.com/@pranavraikote

## EDUCATION

### B.Tech - Computer Science & Engineering BMS Institute of Technology & Management

- Aug 2016 - October 2020
- CGPA - 7.62/10.0

### Pre-University Education

KLE S Nijalingappa PU College

- Mar 2014 - Mar 2016
- Percentage - 70%

## PROFESSIONAL EXPERIENCE

### Deep Learning Intern

DeepVisionTech.AI

- Aug 2020 - Oct 2020
- Worked on Generative Adversarial Networks to generate realistic videos as part of dataset synthesis problem statement

### Developer Intern

Simplifi Commerce

- Aug 2019 - Oct 2019
- Implemented Proof of Concepts in Python, Image Processing and Deep Learning
- Worked on Full-Stack development in NodeJS as part of a website requirement

### Machine Learning Consultant

Infidata Technologies

- Jul 2019 - Aug 2019
- Worked as a Technical Consultant for various student led project teams guiding them in developing Machine Learning Solutions

## POSITIONS OF RESPONSIBILITY

### Chairperson IEEE Student Branch, BMSIT&M

Nov 2019 - Aug 2020

- Successfully led a team towards greater goals and sustained efforts throughout my tenure bringing a positive impact in our institution and beyond

### IEEE R10 Students Activities Committee

Feb 2020 - Present

- Contributed in writing content being a part of the Media and Publicity Sub-Committee

## SKILLS

- Python
- JAVA
- C Programming
- TensorFlow
- Cloud Computing
- Linux

## PROJECTS

### Diagnosis of COVID-19 from Chest X-Rays

Apr 2020 - Present

- Designed and developed a Deep Learning Ensemble Model which can give a diagnostic presence of Viral infection in a Chest X-Ray
- Extensive research on Image pre-processing, Model building and HPO techniques carried out and materialized using TensorFlow

### Diagnosis of Pneumonia from Chest X-Rays

Dec 2019 - Apr 2020

- Designed and developed a Deep Learning Model for a quick and state of the art results on diagnosis of Pneumonia in a Chest X-Ray
- Data cleaning, pre-processing per image basis was carried out and SOTA architectures were explored to improve on the current industry results. Stanford Medical Group's ChexPert data was used

### Detection of Road Lanes from a Video Stream

Apr 2020 - Apr 2020

- Developed an end-to-end Image processing pipeline for detecting lanes on road given a video input or live stream
- Various Image processing filters and techniques were used to arrive at the lane markers. Potential to be developed as a solution for custom fitting into cars for driving assistance

### Image Caption Generator using LSTM & CNN

Mar 2020 - Mar 2020

- Developed a Caption Generator which on given an input will generate multiple-word descriptions. Model was a combination of LSTM and a CNN

### Intpretation of Sign Language from a Video

Jan 2020 - Mar 2020

- Used CNN and Image pre-processing techniques to build a Deep Learning model which on given an input video, will extract frames and output an inference sentence depicting the action

### Extraction of Useful Information from Images

July 2019 - Sep 2019

- Developed an automation application to extract valuable information given a pdf document. Tesseract OCR and MySQL DB were used for effective extraction and storage of results respectively

## CERTIFICATIONS

### Deep Learning Specialization (May 2019)

- 5 courses

### AI in Medicine Specialization (May 2019)

- 3 courses

### Tensorflow Specialization (Jun 2019)

- 4 courses