

A VINEETH BABU

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WORK EXPERIENCE

Drive Visual Data Analytics, Chennai

January 2019 - Present

Role: Computer Vision Developer

June 2019 - Present

1. Worked in R&D implementing many research papers and developed multiple PoC's.
2. Developed an end-to-end pipeline for calculating human body measurements where a 3D human structure is obtained from deep learning model which is loaded into open source 3D software like Blender to obtain measurements.
3. Semantic Human texture stitching from a single monocular video where the body avatar maximally resembles the face, hairstyle, garment wrinkles with high-resolution texture of subject in the video.
4. Facial landmarks detection using dlib and landmarks alignment using pytorch based face alignment network.
5. Deployed and tested Human Pose Estimation frameworks like Openpose and Densepose for analysis on sports videos.

Role: Internship in Computer Vision and AI

January 2019 - May 2019

1. Fine tuned state-of-the-art models like MobileNetv2, Inceptionv3, YOLOv3 and SSD for brand recognition and calculated metrics about appearance of a particular brand in a video using Object Detection and classification.
2. Implemented scene text recognition (OCR) frameworks like EAST (Efficient and Accurate Scene Text Detector), FOTS (Fast Oriented Text Spotting) and pytesseract to extract text from videos.

L&T Technology Services, Chennai

June 2018 - October 2018

Role: Internship at TSIC (Technology services and Incubation Center)

Developed PoC for an intelligent search engine that shows top five similar question and answers when a question is posted on the internal QA portal.

EDUCATION

Indian Institute of Information Technology, D&M Kancheepuram

August 2014 - May 2019

Dual Degree (B.Tech + M.Tech) - Electronics and Communication Engineering with specialization in Signal Processing and Communication Systems Design.
CGPA: 8.32/10

SKVS Junior Kalasala, Vijayawada

July 2012 - June 2014

Board of Intermediate Education.

Overall Percentage: 97.5%

Ravindra Bharathi Public School, Vijayawada

April 2012

Board of Secondary Education.

CGPA: 9.7/10

PROJECTS

1. Obtaining character animation from a video with 2D detections from openpose and 3D detections from HMR(Human Mesh Recovery).
2. Non invasive Hemoglobin Measurement using PPG signals and Machine Learning.
3. Medicine Dispenser system that sends an alert to patient through text message and e-mail.

SKILLS

Languages: Python, MATLAB, C/C++, HTML.

Embedded Development Boards/ Tools: Raspberry Pi, Arduino, Blender.

Python Packages: Pandas, Numpy, OpenCV, pyrender.

Experience in setting up CUDA and CuDNN environments in Linux and Windows.

Digital Image Processing, Deep learning, Machine Learning, Computer Vision, IOT.

Worked as Teaching Assistant for academic year 2018-2019.