

VENKATESH TATA

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Bangalore, India.

Primary Interests:

Computer Vision, Deep Learning, Reinforcement Learning, Photogrammetry

Programming Skills (Primary Libraries)

Python: OpenCV, Numpy, Pandas, PyBind11

Machine Learning: PyTorch, SciPy, Sklearn

Javascript: ReactJS

C++: OpenCV

Work Experience

Euclid.ai (Position: **Founder, ML Engineer**)

July 2020 - Present

- I created a scalable cloud architecture for IoT devices to communicate with user's mobile and the cloud while using an ML Model deployed on Kafka Cluster for understanding the pattern with which the edge devices are being operated by the user.

Daimler AG, Mercedes Benz Research & Development India (Position: **Research Intern**)

Nov 2019 - April 2020

- Developed and deployed Deep Learning models that classify levels of corrosion on various regions of metals on cars. The pipeline consists of models that take images of a metals and predict which stage of corrosion the metal is in. I was part of team Mekoda from ITT/QEI Department at MBRDI, Bangalore.

Daimler AG, Mercedes Benz Research & Development India (Position: **Research Intern**)

Jun 2018 - Aug 2018

- Applied pre-processing methods and analysed 3D Point Cloud Data of RGB-D cameras for dimension abstraction and space optimisation for object arrangement assistance using Machine Learning. I was part of team Pactris from RD I/CEI Department, MBRDI.

Vidatt Data Analytics (Position: **Research Intern**)

Sep 2017 - Nov 2017

- Worked on a pipeline involving Deep Learning models for face recognition, built using PyTorch where the model automatically clusters different human faces that the camera detects and registers the person as attended. Product being used in schools and corporate spaces.

Projects

Percept

- A platform that captures images from user's phone while he's driving and reconstructs the environment in 3D using Structure-from-Motion techniques along with other detections like road conditions, signs, etc. so the enterprises can access high-frequency geospatial 3D data through our console.

Bot Creator : Automated chatbot design and deployment platform

- A tool that lets anyone create chatbots through a Drag-n-Drop interface written in React JS and deploy the bot in the platform of user's choice like WhatsApp, Telegram, etc. and the ML model classifies people who are more suitable for the role based on requirement.

Coordinate : An indoor positioning system

- Coordinate is a beacon free Indoor Positioning System built for CHLA campus (Children's Hospital Los Angeles) that uses mobile's IMU to locate users within the campus.

Sketch to UI

- A rapid prototyping tool for converting hand drawn sketches on paper to a working html code using a trained end-to-end deep learning model integrated pipeline.

Achievements

- 1st Runner up in the Hackathon conducted by Mercedes Benz Research & Development India, in Bangalore 2018, where we built a prototype for autonomous driving system.
- Represented MBRDI in the World Mobile Congress held in Barcelona, Spain.
- Achieved 2nd place in Hackathon conducted in Bangalore, named "HACKMAN" conducted by DSCE for an autonomous rover landing system that makes use of reinforcement learning.
- Achieved 2nd place in a National Level Automation Competition conducted in Hyderabad by SkyFi Labs.

Education

Degree: **Bachelor of Engineering in Information Science**, Bangalore, Karnataka.

College: **Dayananda Sagar College of Engineering**

CGPA: **7.5**

Intermediate : **Sri Chaitanya Junior College**, Vijayawada, Andhra Pradesh.

Percentage: **74 %**

High School: **Sri Gowthami Smart School**, Rajahmundry, Andhra Pradesh.

Percentage: **83 %**

