VENKATESH TATA

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Summary

A Self-starter, enthusiast, exploring every opportunity to learn and excel in the fields of AI and Computer Vision technologies with a vision to make the world a better place.

Work Experience

Euclid.ai (Position**: Founder, CTO**)

Nov 2019 - April 2020

- My current role in the company is to design and build scalable cloud architecture for IoT systems integrating on-device learning for privacy preserving AI into an ecosystem binding edge devices and deep learning together for better understanding the user's product usage patterns.

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

Nov 2019 - April 2020

- Worked with team Mekoda from ITT/QEI Department at MBRDI to develop and deploy Deep Learning models that classify level of corrosion on various regions in cars. The pipeline consists of models that take images of a metals and predict which stage of corrosion the metal is in.

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

Jun 2018 - Aug 2018

- Worked with team Pactris from RD I/CEI Department on Machine Vision. My work involved analysing 3D Point-Cloud Data of RGB-D cameras for dimension abstraction and space optimisation through object arrangement assistance using genetic algorithms.

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

Sep 2017 - Nov 2017

- Worked on a pipeline involving models for face recognition with FaceNet, integrated using PyTorch where the model automatically clusters different human faces that the camera detects and registers the person as attended.

Projects

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 and filter people 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.

Skills

Python Scripting : Numpy, Pandas, CPython, OpenCV, Photogrammetry

Machine Learning : PyTorch, SciPy, Scikit-learn

Javascript : ReactJS

C++ : OpenCV, Cython, ATen

Education

10th Class (2013) : **83 %**
Pre-University (2014) : **74 %**
B.E, Information Science Engineering (2021) : **7.5 CGPA**