

# VENKATESH TATA

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Bangalore, India.

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**Primary Interests :** Photogrammetric Computer Vision, Deep Learning, Reinforcement Learning.

## **Programming Skills** - (Primary libraries)

**Python :** OpenCV, Numpy, Pandas

**Machine Learning :** PyTorch, SciPy, sklearn

**Javascript :** ReactJS

**C++ :** OpenCV, Pangolin, ATen

## **Work Experience**

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

**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**

- Developed and deployed 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, with team Mekoda from ITT/QEI Department at MBRDI.

**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 through object arrangement assistance using Machine Learning, with team Pactris from RD I/CEI Department, MBRDI.

**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.

## Education

10<sup>th</sup> Class ( 2013 ) : **83 %**

Pre-University ( 2014 ) : **74 %**

B.E, Information Science Engineering ( 2021 ) : **7.5 CGPA**

DOB : **September 1st, 1997**