Mallikarjuna Tupakula

9-71B Nehru Nagar - 3rd line,Kandulapuram Centre,Cumbum - 523333

+91 7995606199 | tmallikarjuna111@gmail.com | LinedIn | GitHub

An innovative thinker, curious learner, and self- motivated fellow, Interested in Deep Learning, Computer Vision and Neuroscience and also interested in reading the research papers and learn new problem-solving methodologies from researchers and try to apply in real-world problems.

EDUCATION

Bachelor of Technology in Computer Science and Engg.
2016 - 2020 **RVR & JC College of Engineering**

Intermediate
2014 - 2020 **Narayana Junior College**

Class X
2014 **Sri Srinivasa High School**

EXPERIENCE

Research Intern, Indian Institute of Technology, Madras
Dec 2019 - Present
Working in Computational Neuroscience Laboratory under the guidance of **Prof. Srinivasa Chakravarthy** in the **Neuromotive** team on Deep Learning and Computer Vision.

Research Intern, National University of Singapore, Singapore
Sep 2019 - Oct 2019
Worked on a project Automatic anomaly detection in graphs to find unusually dense subgraphs using deep learning techniques with a Ph.D. student.

Research Intern, Indian Institute of Management, Bangalore
May 2019 - July 2019
Worked under the guidance of **Prof. Trilochan Sastry**. Professor had assigned me to do Research on villages for the development of CCD (**Center for Collective Development**). He founded a startup called **Farmveda** where I worked on Research, Data Analysis, and Digital Marketing.

PROJECTS

1. Image Captioning
It was one of the projects in the Udacity Computer Vision Nanodegree Program which predicts the captions for a given image. I had implemented this project using a combination of CNN and RNN architecture in my model. **Link to GitHub**
Written in: **Python**
Libraries used: **PyTorch**

2. Facial Keypoint Detection
It was a project in the Udacity Computer Vision Nanodegree Program which detects facial key points in an image containing faces. I had an image processing library for processing images and a Machine Learning library for creating a Convolutional Neural Network. **Link to GitHub**
Written in: **Python**
Libraries used: **OpenCV, PyTorch**

3. Supervised Learning approach to Detect Anomalies in Blockchain using Federated Learning.
I was inspired by Research article Chained Anomaly Detection Models for Federated Learning: An Intrusion Detection Case Study. I started working on this project on my own. A secure and Private AI course on Udacity will help to do this by Federated Learning. **Link to GitHub**
Written in: **Python**
Libraries used: **PyTorch, PySyft**

4. Fake News Detection using Natural Language Processing and Machine Learning
I was inspired by Research Paper "Liar, Liar Pants on Fire": A New Benchmark Dataset for Fake News Detection. **Link to GitHub**
Written in: **Python**
Libraries used: **Scikit-Learn**

5. Finding Lanes in a Road using OpenCV
I had applied basic computer vision techniques to find lanes in Road. **Link to GitHub**
Written in: **Python**
Libraries used: **OpenCV**

SKILLS

Programming: **Python** (Intermediate), **MATLAB** (Intermediate), **C++** (Intermediate), **C** (Intermediate)

Deep Learning (Intermediate), **Computer Vision** (Intermediate), **Natural Language Processing**(Beginner)

Libraries: **PyTorch, TensorFlow, OpenCV, PySyft**

Operating Systems: **Windows, macOS and, Linux**

Strategic Planning, Digital Marketing

CERTIFICATES

Computer Vision Nanodegree, *Udacity*
Sep 2019 - Present

Deep Learning, *PadhAI*
Aug 2019 - Present

Secure and Private AI Scholarship Challenge Nanodegree Program, *Udacity*
May 2019 - Aug 2019

MATLAB for Advanced Scientific Computing, *Stanford Lagunita*
Apr 2019 - June 2019

How Google does Machine Learning, *Coursera*
May 2019 - May 2019

Python Data Structures, *Coursera*
Apr 2019 - May 2019

The joy of computing using Python, *NPTEL*
Dec 2018- Apr 2019

Understanding Einstein: Special Theory of Relativity, *Coursera*
Apr 2017-June 2017

SCHOLARSHIPS	**1. Intel Edge AI Scholarship offered by Intel** **2. Computer Vision Nanodegree Scholarship offered by Facebook** **3. Secure and Private AI Scholarship offered by Facebook**
HACKATHONS	**1. Finalist in Sabre Hack** **2. Participated in American Express CodeStreet'19** **3. Participated in Schneider Electric Go Green in the City Challenge 2019** **4. Participated in NEC open Innovation Hackathon**
LANGUAGES	**English (** Intermediate **), Hindi (** Beginner **), Telugu (** Native **)**
INTERESTS & HOBBIES	**Reading Research Papers, Reading Books and Magazines, Travelling, Physics, Culture,Hiking,Playing Games, Exploring Technology**