Mallikarjuna Tupakula

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An innovative thinker, curious learner, and self- motivated fellow, Interested in Machine Learning, Deep Learning, Computer Vision, Strategy, and Psychology. Passionate in reading the research papers and learning new problem-solving methodologies from researchers and try to apply them in real-world problems.

EDUCATION	**Bachelor of Technology** in *Computer Science and Engg.* 2016 - 2020 **RVR & JC College of Engineering**
Experience	**Machine Learning Intern**, *Spacept, Stockholm* *Aug 2019 - Present* Working on an Oil Spill detection project using Machine Learning. **Research Intern,** *Indian Institute of Technology, Madras* *Dec 2019 - Mar 2020* Working in the Computational Neuroscience Laboratory under the guidance of **Prof. Srinivasa Chakravarthy** in the **Neuromotive** team on Deep Learning and Computer Vision, and updating bharatiscript web page. **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** I had implemented a Deep Learning model to generate the captions for the 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** I had implemented a Deep Learning model to detect facial keypoints of a human face. I had implemented this project using CNN and Fully connected Neural Networks in my model. **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 the 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**

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

Programming: Python (Intermediate), **MATLAB** (Intermediate),
　　　　　　　C++ (Intermediate), **C** (Intermediate)
Machine Learning (Intermediate), **Deep Learning** (Intermediate),
Statistics (Intermediate **), Computer Vision** (Intermediate **),**
Natural Language Processing (Beginner **), Federated Learning** (Intermediate**)**
Libraries: PyTorch, TensorFlow, OpenCV, PySyft, Pandas, Numpy
Operating Systems: Windows, macOS and, Linux
Strategic Planning, Digital Marketing

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, Swimming