Mallikarjuna Tupakula

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An innovative thinker, curious learner, and self- motivated fellow, Interested in Machine Learning, Deep Learning, Computer Vision, Natural Language Processing, Psychology, and Strategy. Passionate about reading the research papers and learning new problem-solving methodologies from researchers and try to apply them to 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, *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 key points 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)
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, NLTK
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