Dubba Tharun Reddy

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EDUCATION

Indian Institute of Technology   Hyderabad, IN
B.Tech, Major in Electrical Engineering, Minor in Computer science; GPA: 8.63   *Aug. 2015 – May. 2019*

Sri chaitanya Junior college   Hyderabad, IN
Board of Intermediate Education; GPA: 9.84   *June. 2013 – May. 2015*

EXPERIENCE

Machine Learning Engineer   Oct 2019 – Present
Yokogawa Electric Corporation   *Tokyo, JP*

- Developed and Integrated Deep Learning solution at factories to decrease man-hours for classification of semi-conductor chips by 50%.
- Design and Migrate different types of data from various sources through collaboration and facilitated usage of Data Lake for other applications.
- Enabled real-time visualisation of transformed production data for factory personnel to enhance productivity using Kafka, Spark and Tableau.
- Identify and Develop new use cases to promote Digital transformation at regional companies. Predominantly OT Data lake, Realwear and AR solutions.

AI Intern   May 2018 – July 2018
Mathworks   *Hyderabad, IN*

- Decreased speed of forward pass in Semantic segmentation of real-world images for autonomous driving by optimizing the model and improved the accuracy by 5%.
- Integrated to MATLAB's Automated Driving toolbox.
- Used by the company in their Autonomous Vehicle for testing on Hyderabad street images data.

Undergraduate Teaching Assistant   Aug 2017 – May 2019
Indian Institute of Technology   *Hyderabad, IN*

- Teaching Assistant for *Intro to AI&ML*, *Deep Learning* and *Circuits* courses.
- Setting and evaluating assignments, conduct exams, paper grading and assisting students with their doubts.
- Conduct Python and Deep Learning skill building sessions.

PROJECTS

Unsupervised voice activity/Word detection | *Python, Tensorflow*   Spring 2019

- Developed an unsupervised deep learning model that can detect voice activity in a speech signal.
- Useful in VoIP systems where the cost of transmitting is significant, helps achieve better performance in low bandwidth networks and leads to lower data usage.
- Achieved 40% accuracy on Phoneme clustering for it's usage on word detection.

Story similarity Detection | *NLTK, Numpy*   Fall 2018

- Implemented LSH combined with MinHash for efficient similarity hashing using TF-IDF scoring.
- Also tried Community Detection on Tweets and Reuters data for news to find similar stories.

Precision Farming | *TI Innovation challenge*   Spring 2018

- Created and Tested GPS based sensor nodes that can communicate with master node in the field and transfer the soil characteristics to a server for data analytics.
- Overlaid the features on maps for near real-time visualization and send text messages for further action to save water, fertilizers.
- One of the semifinalist teams out of 3500 teams across India.

TECHNICAL SKILLS

Languages: Python, C/C++, SQL, HTML, CSS, JavaScript*
Data science: Tensorflow, Pytorch, Numpy, Pandas, ScikitLearn, OpenCV, MATLAB.
Others: Git, Docker, Azure, Spark, Kafka, CircleCI, Tableau, ReactJS*, Terraform*, Kubernetes* (* beginner)