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

Data scientist — Oct 2019 – Present
Yokogawa Electric Corporation — *Tokyo, JP*

- Developed and Integrated Deep Learning solution to decrease man-hours for classification of semi-conductor chips at factories by 50%
- As a member of OT Data Lake development team, my responsibilities include data migration of different types from various factories and facilitate 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*

- Improved speed of forward pass in Semantic segmentation of real-world images for autonomous driving by decreasing the model sizes and improved the accuracy by 5%
- Integrated to MATLAB's Computer vision toolbox
- Tested it on Hyderabad street images

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

- Teaching Assistant for *Intro to AI&ML* and *Deep Learning* courses
- Explain and evaluate Assignments problems, exams
- Conduct Python and Deep Learning skill building sessions

Projects

Personal website | *React, Node JS, Git*

- Developed a personal website

Unsupervised voice activity detection | *Python, Tensorflow, Docker*

- 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 and helps achieve better performance in low bandwidth networks and lower data usage.

Precision Farming | *TI Innovation challenge*

- Developed GPS based sensor nodes that can communicate among themselves in the field and transfer the soil characteristics to a server for further processing. The server draws heatmaps on the Google map image of the field.
- One of the 55 semifinalist teams out of 3500 teams across India.

Technical Skills

Languages: Python, C/C++, SQL, JavaScript, HTML/CSS
Frameworks: Tensorflow, React, Node.js
Tools: Git, Docker, Azure, Kubernetes, Terraform, CircleCI
Libraries: pandas, NumPy, Scikit-learn