Anish Reddy Ellore

Undergrad Student

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Education

2016–2020 **Bachelor of Engineering**, *BITS Pilani, Hyderabad Campus*, India.
Major: *Computer Science*

Experience

May–July 2019 **Summer Intern**, *Publicis Sapient*, Bangalore.
Worked in Data Engineering team of a American based beauty products company.
- Developed a stream processing application to ingest data and generate KPI's in real time.
- A random forest classifier was used to make predictions about customer behaviour using the generated KPI's.
- Azure Event Hubs and Spark's Structured Streaming were used to develop this application.

May–July 2018 **Summer Intern**, *PASS Consulting*, Hyderabad.
The project's requirement is to optimize the water distribution to the tanks based on the sensor data.
- Developed a python application to visualize dependency between tanks which helps in identifying the water distribution schedule.
- Developed graphs which helped in taking decision about quantity of water to pump and the schedule.

Publication

ICCS 2020 **Fusion Learning: A One Shot Federated Learning**.
Anirudh Kasturi, **Anish Reddy Ellore**, and Chittaranjan Hota
In proceedings: Link coming soon.

IEEE IOT Journal (Under Review) **Sequential Anomaly Detection on Data Streams using Feedback and Prioritized Experience Replay**.
Anish Reddy Ellore, Sanket Mishra and Chittaranjan Hota

Projects

March–April 2019 **Performance Analysis of TCP variants in a congested network**, *Computer Networks*.
The goal of this project is to compare the performance of TCP variants in different types of congested networks
- Implemented a client server framework in python to send files across the network
- Built a asynchronous server to induce congestion in the network
- This setup is tested with different file sizes and different types of congestion environments
- Identified TCP variants performing well in different congestion environments

Sept–Nov 2019 **Anomaly Detection using Q Learning**, *Personal Project*.
In this project I tried to pose time series anomaly detection problem as a game where an agent takes decisions about data and gets appropriate rewards. The objective is to maximize this cumulative reward and make a good anomaly detection agent. Although results of this project were not good this helped me in making progress towards my IEEE IOT paper(under review).

April–April 2019 **Comparison and Visualization of different Convex Hull finding Algorithms**, *Advanced Algorithms*.
Implemented Kirkpatrick–Seidel, Jarvis-March and Graham's Scan algorithms from scratch showing their performance and working in different data sizes and shapes. Used C++ and python to develop this application.

March–April 2018 **Time Cards Management System**, *Software Development*.
It is a web application which helps companies track their employees time cards, leaves and generate salaries. This application was developed using Python's Flask API, MySql, HTML and CSS.

Technical Skills

Languages C, C++, Python3, Java

Libraries Tensorflow, Keras, Numpy, Pandas

Other MySQL, Git, LaTeX, Flask, Spark's Structured Streaming, Azure Event Hubs

Languages

Telugu Native

English Fluent

Hindi Intermediate

Interests and Activities

Sports Cricket, Table Tennis, Esports

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