

Anish Reddy Ellore

Undergrad Student

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📁 <https://anishellore.github.io/>

Education

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

Experience

May–July **Summer Intern**, Publicis Sapient, Bangalore.

2019 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 **Summer Intern**, PASS Consulting, Hyderabad.

2018 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.

Publications

ICCS 2020 **Fusion Learning: A One Shot Federated Learning.**

Anirudh Kasturi, **Anish Reddy Ellore**, and Chittaranjan Hota

[Paper link](#)

EMDL @ ACM **Hybrid Fusion Learning: A Hierarchical Learning Model for Distributed Systems.**

MOBICOM 2020 Anirudh Kasturi, **Anish Reddy Ellore**, Paresh Saxena and Chittaranjan Hota

[Paper link](#)

NSS 2020 **Sequential Anomaly Detection using Feedback and Prioritized Experience Replay.**

Anish Reddy Ellore, Sanket Mishra and Chittaranjan Hota

In proceedings: [Link coming soon](#)

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