Anish Reddy Ellore

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Education

- **Virginia Tech** — Blacksburg, VA
  Master of Science in Computer Science; Fall 21 Courses: Operating Systems, Data Analytics — *Aug. 2021 – Present*
- **Birla Institute of Technology and Science Pilani** — Hyderabad, India
  Bachelor of Engineering in Computer Science; GPA: 8.14/10.0 — *Aug. 2016 – July. 2020*

Experience

- **OPPO Research and Development Centre** — Hyderabad, India
  Software Engineer — *Sept 2020 - July 2021*
  - Solved WLAN Power Issues, fixed critical Android R OS upgrade bugs, improved WIFI and Hotspot stability
  - Collaborated with Qualcomm and Chinese counterpart teams on a day to day basis for the job
- **Publicis Sapient** — Bangalore, India
  Software Engineering Intern slides — *May 2019 - July 2019*
  - Developed a near real-time stream processing application to ingest the data and generate KPIs
  - Predicted customer seasonal purchase patterns by merging our KPIs with publicly avaliable census data which lead to a very interesting results about holidays. For this initiative, our team was commended by the company leaders
- **PASS Consulting** — Hyderabad, India
  Software Engineering Intern slides — *May 2018 - July 2018*
  - Developed a python application to visualize water tanks dependencies and optimize water distribution schedule. This helped to improve the water management in the State of Telangana

Publications and Presentations

- A. Kasturi, **A. R. Ellore**, and C. Hota, Fusion Learning: A One shot Federated Learning, 20th International Conference in Computational Sciences, Amsterdam, Netherlands, June 2020. pdf
- A. Kasturi, **A. R. Ellore**, P. Saxena, and C. Hota, Hybrid Fusion Learning: A Hierarchical Learning Model for Distributed Systems, 4th International Workshop on Deep Learning for Mobile Systems and Applications (26th MobiCom 2020), ACM, London, Sept 2020. pdf
- **A. R. Ellore**, S. Mishra, and C. Hota, Sequential Anomaly Detection using Feedback and Prioritized Experience Replay, 14th International Conference on Network and System Security, Melbourne, Australia, Nov 2020. pdf
- **A. R. Ellore**, A. Kasturi, P. Saxena, and C. Hota, OSGAN: One Shot Distributed Learning using General Adversarial Networks. (Conference paper in preparation)
- **Anish Reddy Ellore**. Oral Presentation for the Sequential Anomaly Detection paper at the 14th International Conference on Network and System Security, Melbourne, Australia, Nov 2020. slides

Projects

- **Performance Analysis of TCP variants in congested networks**: In this project, we designed an environment with an asynchronous-event-driven server and clients to simulate congestion in the network. In our results, we found TCP reno to be performing well under different types of network congestion. code
- **Analysis of search engine variants|Information Retrieval**: Developed two search engines using vector space model and Locality Sensitive Hashing on the bible dataset. In our comparison, we found the LSH variant to be very fast and accurate than the vector-space variant. code
- **Time Cards Management System|Software Engineering**: Created a web application to help companies track employees time cards, leaves, and generate salaries. code

Skills and Interests

- **Languages**: C++, Java, Python, Scala, SQL **Technologies**: Spark Structured Streaming, Tensorflow, Git, Flask, Azure, Latex
- **Courses**: Foundations of Data Science, Operating Systems, Machine Learning, Data Mining, Information Retrieval, Network Programming, Software Engineering
- **Research Interests**: Federated Learning, Distributed Systems, General Adversarial Networks, Reinforcement Learning, Privacy