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*
  - Fixed critical Android R OS upgrade bugs, solved WLAN Power Issues, 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 available census data, leading to interesting holiday purchase pattern discoveries. For this initiative, company leaders commended our team.

- **PASS Consulting** — Hyderabad, India
  Software Engineering Intern [report] — *May 2018 - July 2018*
  - Developed a python application to visualize water tanks dependencies and optimize water distribution schedule. This project helped to improve water management in the State of Telangana

PROJECTS

- **Performance Analysis of TCP variants in congested networks**: [code]
  - Designed an environment with an asynchronous-event-driven server and clients to simulate network congestion
  - In our results, we found TCP reno to be performing well under different types of network congestion

- **Analysis of search engine variants | Information Retrieval**: [code]
  - 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

- **Time Cards Management System | Software Engineering**: [code]
  - Created a web application to help companies track employees' time cards, leaves and generate salaries.

PUBLICATIONS AND PRESENTATIONS

- A. Kasturi, **A. R. Ellore**, and C. Hota, Fusion Learning: A One shot Federated Learning, International Conference in Computational Sciences, Amsterdam, Netherlands, June 2020. (Core A) [pdf]

- A. Kasturi, **A. R. Ellore**, P. Saxena, and C. Hota, Hybrid Fusion Learning: A Hierarchical Learning Model for Distributed Systems, EMDL@MobiCom 2020, ACM, London, Sept 2020. (Core A*) [pdf]

- **A. R. Ellore**, S. Mishra, and C. Hota, Sequential Anomaly Detection using Feedback and Prioritized Experience Replay, International Conference on Network and System Security, Australia, Nov 2020. (Core B) [pdf] [presentation]

- **A. R. Ellore**, A. Kasturi, P. Saxena, and C. Hota, OSGAN: One Shot Distributed Learning using General Adversarial Networks. (Conference paper in preparation) [code]

SKILLS AND INTERESTS

- **Languages**: C++, Java, Python, Scala, SQL
- **Technologies**: Spark Structured Streaming, Tensorflow, Git, Flask, Azure Event Hub
- **Courses**: Operating Systems, Machine Learning, Network Programming, Foundations of Data Science, Data Mining
- **Research Interests**: Federated Learning, Distributed Systems, GAN, Reinforcement Learning, Privacy