


Anandhini Rajendran

✉ anrajendran@ucsd.edu  [linkedin.com/anandhini-rajendran](https://www.linkedin.com/anandhini-rajendran)  github.com/anand-123 ☎ 91 9344717381

Education

University of California, San Diego
Master of Science in Computer Science

Sept 2024 Onwards
San Diego, USA

International Institute of Information Technology, Hyderabad
Bachelor of Technology (Honors) in Computer Science Engineering (CSE) GPA: 3.84/4.00 (WES)

July 2019 - June 2023
Hyderabad, India

Technical Skills

Programming Languages: Python, C, C++, SQL, Scala, HTML/CSS, React, JavaScript, Bash

Frameworks & Tools: Spark, Hive, NumPy, Pandas, Scikit-learn, OpenCV, PyTorch, Tensorflow, Beautiful Soup, Scrapy, Git

Concepts: Statistical Methods in AI, Computer Vision, Machine Learning, Big Data, Operating Systems and Networks

Publications

Kannan Kiruthika, **Anandhini Rajendran**, Vinoo Alluri, and Ravi Kiran Sarvadevabhatla. “**Draw Fast, Guess Slow**”: Characterizing Interactions in Cooperative Partially Observable Settings with Online Pictionary as a Case Study. In IFIP Conference on Human-Computer Interaction, pp. 283-303. Cham: Springer Nature Switzerland, 2023.

Experience

JIO Platforms Limited
Software Development Engineer

Aug 2023 - Aug 2024
Mumbai, India

- Worked in the Analytics CoE focusing on analysing and processing big data using Spark, Hive, and Nifi.
- Contributed to code migration and optimization for JioTV customer preferences, successfully reducing runtime by 61.11% through caching & performance tuning. In addition, worked on bug fixes & code migration for JioAirFiber.

MarkovML India Pvt. Ltd.
Machine Learning Intern

May - July 2022
Bengaluru, India

- Designed and developed a dataset profiler that generates image feature vectors for building search engines. Experimented with different architectures, under resource constraints such as computing capacity.
- Custom-trained YOLOv5 and YOLOv6 for 11 domains and identified optimal hyperparameters.

Centre for Visual Information Technology(CVIT) @ IIIT H
Undergraduate Researcher

June 2021 - June 2023
Hyderabad, India

- Collaborated with Prof. Ravi Kiran and Prof. Vinoo Alluri on analyzing player behaviors in a communication-restricted setting by utilizing game telemetry data collected from online Pictionary.
- Contributed to the development of AI agents for the Cooperative Partially Observable (CPO) game Pictionary by utilizing text-to-image generators such as Stable Diffusion and DALL-E Mini.

Projects

Linux C- shell | *Operating Systems, C*

- Built a fully functional Linux shell in C that supports redirection, piping, environmental variables, and background and foreground process execution.

SimpleRA | *Data Systems, C++*

- Developed an RDBMS supporting database operations such as load, print, store, and transpose for integer-only tables, efficiently handling large-sized matrices.

Digital Image Processing | *Python, OpenCV*

- Implemented Spatial and Fourier domain image filtering, morphological operations, image segmentation, and image compression using Huffman Coding & Edge detection methods. Coded a fingerprint enhancement system.

Optimization Methods | *Python*

- Implemented Simplex Algorithm and Newton’s Method using Backtracking line search. Coded Steepest Gradient Descent Algorithm using Exact line search and Backtracking line search.