Vrinda (she/her)

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EDUCATION

University of Massachusetts Amherst — Amherst, Massachusetts
MS in Computer Science — *Exp. Graduation: May 2025*

- GPA: 4.00 / 4.00
- Courses: Neural Networks, Machine Learning, Systems for Data Science, Advanced NLP, Applied Information Retrieval, Statistics

LNM Institute of Information Technology (LNMIIT) — Jaipur, India
B.Tech in Computer Science Engineering — *Aug. 2016 - May 2020*

SKILLS

- **Programming Languages and Frameworks**: Python, C, C++, Java, NumPy, TensorFlow, PyTorch
- **Database and Big Data Technologies**: SQL, Hadoop, Hive, Spark
- **Development Tools and Project Management**: Jenkins, Git, JIRA

EXPERIENCE

LinkedIn — Bangalore, India
Software Engineer (Site Reliability) — *May 2021 - Feb. 2023*

- Streamlined and optimized the operations of a massive Big Data ecosystem, consisting of 44,000 servers and 1+ exabytes of data; resulting in enhanced scalability, faster data processing, and improved decision-making capabilities.
- Led the design and development of a project to reliably and optimally automate the life cycle of LinkedIn's Big Data servers:
  - Designed a robust solution for servers interacting with 100+ services, spread across 10 clusters in a complex, federated architecture.
  - Automated the addition of petabytes of storage and compute capacity, slashing manual operation time from hours to minutes, and enabling faster scaling of operations.
- Worked on migrating the Hadoop Job History admin service from a bare-metal setup to Kubernetes, ensuring uninterrupted service and enabling automatic fail-over while reducing hardware dependency.

American Express — Bangalore, India
Software Engineer — *Sep. 2020 - May 2021*

- Managed the legacy Mainframe setup, while spearheading modernization efforts using cutting-edge tools and technologies like ElasticSearch, Grafana, and Jenkins to monitor, optimize, and automate operations.

Grab — Bangalore, India
Software Engineer Intern — *Jan. 2020 - Aug. 2020*

- Optimized performance, data security, and bug resiliency in the financial reconciliation frameworks through APIs and access layers.
- Developed a test automation framework and dynamic mock server for thorough dependency testing and efficient API evaluation.

American Express — Gurugram, India
Software Engineer Intern — *May 2019 - July 2019*

- Created Spark scripts to reduce the creation time of Big Data tables from 6 hours to 45 minutes while improving resource allocation.

Razorthink Inc. — Bangalore, India
Software Engineer Intern — *June 2018 - July 2018*

- Developed an Intelligent Document Processor using DL algorithms to parse and visualize data, providing clients like banks and law firms with efficient retrieval of intricate details from complex documents, saving significant manual effort.

PROJECTS

Object Localisation based on Textual Description [Report]
Pioneered an innovative Object Localization model on the MS COCO dataset, seamlessly integrating user queries for targeted object highlighting. Focused on leveraging the CLIP model to redefine architecture, and evaluated its performance against state-of-the-art models.

Uncertainty Visualization for Stock Prediction [Report]
Developed Convolutional, Regular, and LSTM Neural Networks to predict closing stock prices of companies like Google and Amazon, using a comprehensive dataset spanning 10 years and implemented unbiased error rate calculations and data visualization techniques (scatter plots, line plots, error bars) for reliable prediction model comparison and selection by investors.