

Deepthi Dayanand

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EDUCATION

University of California, Riverside

Master of Science in Computer Science

Riverside, CA

Sept. 2025 – Jan 2027

PES University

Bachelor of Technology in Computer Science and Engineering

Specialization in Machine Intelligence and Data Science — 3× Distinction Award

Bangalore, India

Dec. 2020 – May 2024

SKILLS

Languages and Frameworks: Java, Python, JavaScript, NodeJS, MySQL, PostgreSQL, Spring, Hibernate

Cloud: AWS, GitHub Actions, Docker, Apache, Git, MongoDB, SQL, Shell scripting, Linux, Unix, Distributed systems

Machine Learning: PyTorch, Pandas, NumPy, Scikit-learn, NLTK, Keras, TensorFlow

EXPERIENCE

Schneider Electric

Software Application Engineer

Bangalore, India

Aug 2024 – Aug 2025

- Took end-to-end ownership of 12+ deployment pipelines using AWS and GitHub Actions, from research and prototyping to deployment, integrating AI capabilities and ML models to enhance system intelligence.
- Implemented and tested microservices for SSL certificate management, remote debugging, and asynchronous upgrades of containerized services on remote machines for 12+ projects across 4 environments each.
- Leveraged GitHub Copilot AI to auto-generate boilerplate code for data pipelines and SQL transformations, reducing development time for repetitive tasks.

Schneider Electric

Research and Development Intern

Bangalore, India

Jan 2024 – Aug 2024

- Led initiatives to scale services for large scale deployments with infrastructure migration support.
- Worked on the migration of monolithic legacy code to microservices architecture for 20+ servers.

Lensta Technologies

Software Intern

Bangalore, India

June 2023 – July 2023

- Revamped MySQL database schema design, improving query response time by 40% and reducing server costs.
- Engineered and optimized RESTful APIs using Java, reducing data transfer latency by 25%.

RESEARCH/PROJECTS

Cloud-based Management System for Small-Scale Legal Firms — Capstone Project

- Developed a full-stack cloud-native web application for small-scale legal firms deployed on AWS with three distributed, efficient microservices. (*Technologies: AWS, Java, Springboot, PostgreSQL, Microservices*)

Social Network Analysis — *Network Analysis and Mining course*

- Developed a project to apply network analysis techniques to the "Murder on the Orient Express" by Agatha Christie to explore the relationships between characters and uncover hidden patterns in the story using graphs. (*Technologies: R, Python, NetworkX, Matplotlib*)

Network Communication Visualization — *Computer Networks course*

- Parsed and analyzed network trace data using Wireshark and visualized results in Neo4j. Uncovered patterns in communication traffic to enhance system understanding. (*Technologies: R, Neo4j, Python, Wireshark*)

PUBLICATIONS

1. Literature Review of Approaches in Cloud-based Management Systems for Legal Firms, *Data Science and Intelligent Computing Techniques, ADCIS 2023*
2. Secure Cloud-based Enterprise Management System for Legal Firms, *Fifth International Conference on Computing and Network Communications, CoCoNET 23*
3. Neural Networks for Human-Machine Interface, Chapter 1, *Human-Machine Interface Technology Advancements and Applications, 2023*