DEEPTHI DAYANAND

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EDUCATION

Bachelor of Technology in **Computer Science and Engineering**   *Aug 2020 - March 2024*
PES University, Bangalore, India
- *Teaching Assistant for 'Object Oriented Analysis and Design using Java' course.*
- *Recipient of the MRD scholarship for being in the top 20% of the batch.*

SKILLS

Languages and Frameworks: Java, Python, JavaScript, NodeJS, MySQL, PostgreSQL, Spring, Hibernate
Cloud: AWS, GCP, Git, MongoDB, SQL, Shell scripting, Cloud architecture, Postman API, Unix, Distributed systems
Machine Learning: PyTorch, Pandas, NumPy, Scikit-learn, NLTK, Keras, TensorFlow

PROFESSIONAL EXPERIENCE

Schneider Electric, Bangalore | *Graduate Engineer, R&D Technical*   *August 2024 - Present*
- Working on the development of a software tool to measure the environmental impact of resource group deployments, leveraging AWS framework to assess eco-friendliness and promote sustainable software practices.
- Created custom initiatives with built-in policies for evaluating and optimizing resource management.
- Worked on the migration of monolithic legacy code to microservices architecture.

Schneider Electric, Bangalore | *R&D Software Intern*   *Jan - Aug 2024*
- **Reduced build time by 27%** by designing and implementing secure and efficient data ingestion pipelines.
- Handled the design, deployment, and management of scalable cloud solutions to support R&D initiatives.
- Automated deployment processes to maintain a secure, efficient cloud environment for cross-functional teams.

Lensta Technologies, Bangalore | *Software Engineering Intern*   *June – July 2023*
- Revamped database schema design, improving **query response time by 40%** and reducing server costs.
- Utilized JavaScript frameworks to enhance frontend functionality, increasing user engagement.

Center for Innovation and Entrepreneurship, PESU Bangalore| *Product Intern*   *June – December 2022*
- Worked on creating an app to gamify the learning process for coursework using the MERN stack.
- Oversaw a team of **12 interdisciplinary members** while contributing to the design and development of the product.

Center for Data Science and Applied Machine Learning, PESU Bangalore | *Research Intern*   *June - July 2022*
- Developed and optimized Machine Learning models to approximate complex mathematical functions.

PUBLICATIONS

1. Literature Review of Approaches in Cloud-based Management Systems for Legal Firms, *Data Science and Intelligent Computing Techniques,* **ADCIS 2023** DOI: https://doi.org/10.56155/978-81-955020-2-8-54
2. Secure cloud-based enterprise management system for Legal Firms, *Fifth International Conference on Computing and Network Communications, CoCoNET 23,* ISBN: 978-981-97-4542-5
3. Neural Networks for Human-Machine Interface, Chapter 1, *Human-Machine Interface Technology Advancements and Applications, 2023,* ISBN 9781032351520 DOI: https://doi.org/10.1201/9781003326830

PROJECTS

Cloud-based management system for small-scale legal firms | Capstone Project   `   *Sep - December 2023*
- Developed a full-stack cloud-native web application for small-scale legal firms deployed on AWS with three distributed, efficient microservices. The project aims to contribute to the overall efficiency of legal practices using cloud computing.

Social Network Analysis | Network Analysis and Mining   *March 2023*
- 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.

Network communication visualization | Computer Networks course   *Oct 2022*
- Processed network trace data and stored it in a Neo4j graph database to enable the visualization and analysis of network traffic to gain insights into network behavior and performance.

LEADERSHIP AND RECOGNITION

- **Teaching Assistant** for the 6th-semester course Object-Oriented Analysis and Design with Java for 200+ students
- **Editor and head** of the PES Newsletter team. Led a team of 20+ interdisciplinary members for a 3500+ student audience
- **Head** of the Apple Developers Group student club, overseeing a team of 20+ interdisciplinary members across 3 projects
- Won the '**Luminary' award** at Schneider Electric, Bangalore, for consistent contributions to team events. (July 2024)
- **Hackathon Winner** – Center for Data Science and Machine Learning, PESU – July 2022 - Awarded for the best research project at a university-level hackathon.
- **Hackathon Winner** – Override 2021 App Development Hackathon, Google Developer Student Clubs - Won best design in app development at a university-level hackathon
- **Hackathon Winner** – AIKYA, PESU 2021 - Won the sustainability award at a university-level hackathon.

CERTIFICATIONS

- AWS Educate Introduction to Cloud 101 *(March 2023)*
- Linux Kernel Development *(April 2022)*
- Onboarding Cloud with Google Cloud PlatformOnboarding Cloud with Google Cloud Platform *(June 2021)*