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# Maanya C Bharath

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## Education

### Shiv Nadar University, Chennai

B. Tech Artificial Intelligence & Data Science

September 2021 – May 2025

CGPA: 8.667/10.0

## Experience

### HCL Technologies

Data Science & Machine Learning Intern

May 2024 – July 2024

Chennai

**Predictive Maintenance** | Python, Tensorflow, PySpark, MS Fabric

- Performed hard drive failure classification using Machine Learning models (XGBoost), anomaly detection with neural networks (Long Short Term Memory) and deployed the project end-to-end on Microsoft Fabric Data Engineering platform.
- Scaled the project on MS Fabric using Data Activators – set up real-time alert system for hard drive maintenance scheduling with an accuracy of 97%.

**Automated Migration of PowerBI Reports onto MS Fabric** | Python, PySpark, MS Fabric, PowerBI

- By leveraging MS Fabric's integration capabilities, I developed scripts to transfer data models, report structures, and visual elements while maintaining data consistency during the migration resulting in reduced manual intervention and minimized downtime.

### ANB Systems

Data Science Intern

May 2023 – June 2023

Chennai

**Generative Chat-bot for Technical Assistance** | Python, SQL

- Worked with a team of 5 to develop and train a GenAI Chat-bot to assist with technical queries for employees (specifically Business and Data Analysts).

**General Tasks** | Python, Tableau, SQL, MongoDB, MS Office

- Performed data collection, cleaning, flattening and visualization for projects deployed by the data science department, including sentiment analysis, anomaly detection and generative chat-bots. Prepared technical demonstrations and documentations for the mentioned projects.

## Projects

**Ethnographic Identification of Distracted Driving patterns in Naturalistic Contexts** | Python, OpenCV, Tensorflow (on-going)

- Developed light-weight architecture to perform video action recognition of distracted driving leveraging MobileNetV3, RNN (LSTMs) in real-time with an accuracy of 82%. Currently working on a paper to submit to the "VISAPP 2025" conference under the guidance of Dr. Jiji CV, CSE Dept., SNUC

**Study of ML and Big Data applications in air-gapped networks** | Air gaps, ML, Computer Networks, Big Data

- Research project on the use of ML in securing air-gapped systems. Currently writing a review paper along with Dr. Sundharakumar KB, CSE Dept, SNUC

**Script-to-Story Text Summarizer** | Python, BERT, PyTorch

- Built an LLM-based text summarizer that took scripts (with dialogue) as input and output a summary of the story with an 85% accuracy.

**Low-Light Detection** | Python, OpenCV, Tensorflow, PyTorch

- Worked on the NTIRE challenge to enhance images with low lighting conditions by developing a network with computer vision technology.

## Positions of Responsibility

**Editor, SiNEWS (University Newsletter) Editorial Board**

September 2021 – April 2024

- Managed 15 student editors on rotation and authored articles on internal events, tech trends and latest research in the fields of AI and Data Science.

**Content Creation and Teaching Intern, Dhrithi Program, Bhoomika Trust (NGO)**

August 2021 – December 2023

- Created content for 170+ topics, taught students aged 10-13 weekly and conducted orientation drives to mentor new interns across villages in India.

## Certifications

Joy of Computing with Python (NPTEL), Blockchain and its Applications (NPTEL), Advanced R programming for Business Analytics (NPTEL)