Maanya Cola Bharath

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Education

University of Washington, Seattle   **September 2025 – Present**
Master of Science, Data Science   *(Expected graduation date: March 2027)*

Shiv Nadar University, Chennai   **September 2021 – July 2025**
Bachelor of Technology, Artificial Intelligence & Data Science   *(Graduated First Class with Distinction)*

Technical Skills

Programming & Databases**: Python, R, SQL**

Data Processing & Big Data**: Pandas, PySpark, Apache Spark**

Machine Learning & AI**: Statistical Modelling, Deep Learning (NLP, CV), LLMs, Multi-Agent Systems**

Data Visualization & BI**: Tableau, PowerBI**

Cloud & Deployment**: Google Cloud Platform (GCP), AWS Console, Microsoft Fabric**

Version Control & Tools: **Git, GitHub, MS Office**

Experience

DzruptivAI   **Dec 2024 – May 2025**
Data Science Intern   *Chennai, India*
Agentic Model for Financial Analysis | *Python, LLMs, AWS, SQL, GCP*
- Built an LLM-powered AI Agent for an Asset Management Company, cutting research turnaround by ~40% and automating analysis.
- Integrated multi-source financial datasets (market data, balance sheets, and mutual fund portfolios) into pipelines, enabling real-time analysis with query latency under 3 seconds, increasing portfolio decision making efficiency.
- Benchmarked agent performance against analyst workflows, expanding financial indicators and improving fund-manager decision making.

HCL Technologies   **May 2024 – July 2024**
Data Science & Machine Learning Intern   *Chennai, India*
Predictive Maintenance | *Python, Tensorflow, PySpark, MS Fabric*
- Developed a predictive maintenance model using XGBoost for 50k+ hard drives. Scaled up to a real-time alert system for maintenance scheduling with an accuracy of 97% on MS Fabric.

Automated Migration of PowerBI Reports onto MS Fabric | *Python, PySpark, MS Fabric, PowerBI*
- Developed scripts to transfer data models of 1000+ PowerBI dashboards to MS Fabric, reducing manual intervention of 150+ hours.

ANB Systems   **May 2023 – June 2023**
Data Science Intern   *Chennai, India*
Generative Chat-bot for Technical Assistance | *Python, SQL*
- Collaborated with senior manager to develop a GenAI Chat-bot for internal analyst use, reducing support ticket resolution time by ~50%**.**
- Conducted **end-to-end data pipeline development**: collected, cleaned, and flattened 250k+ rows of structured/unstructured data, ensuring **99% accuracy** for downstream ML models.

Projects & Publications

Bridging the Gap: Air-gapped Networks in the Era of ML and Big Data | *https://link.springer.com/chapter/10.1007/978-3-031-98364-1_31*
- Researched ML-driven security models for air-gapped networks; proposed hybrid cloud approaches for Big Data. Published in *SpringerLink* and presented at **ICCIDS 2025**.

Script-to-Story Text Summarizer| *Python, BERT, PyTorch*
- Built a BERT-based text summarizer that took scripts (with dialogue) as input and output a summary of the story with an 85% accuracy.

Identification of Distracted Driving patterns in Naturalistic Contexts | *Python, OpenCV, Tensorflow*
- Developed light-weight video action recognition tool for distracted driving, with MobileNetV3, LSTMs in real-time with 82% accuracy.