

# Muhammed Sharvan C

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## EDUCATION

### Indian Institute of Technology Kharagpur

Dual Degree (B.Tech + M.Tech) in Mining & Safety Engineering

Kharagpur, India

Jul. 2017 – Apr. 2022

- Cumulative GPA: 7.14
- Coursework Info: Programming & Data Structures, Probability & Statistics, Mathematics I & II, Economics, Quantitative Decision making, Networks & Project Management

## EXPERIENCE

### Honeywell

Data Scientist II

May 2024 – Present

Bangalore, India

- Implemented a pricing solution utilizing tree-based models to determine **optimal product pricing** based on customer segmentation, simplifying the understanding of price variations across different order features.
- Created a pipeline using GPT-4o to **extract content** from the PDF product specification documents while preserving the structure in markdown format, facilitating the assessment of customer requests and matching product availability.

### ZS Associates

Advanced Data Science Associate

Jun. 2022 – May 2024

Bangalore, India

- Developed a **GenAI-powered analytics workbench** enabling natural language queries for data aggregation and visualization, and integrated a **web search** functionality within a chatbot to enhance response accuracy by retrieving and synthesizing real-time information from the web.
- Built a **Bayesian marketing mix model** at the sub-national level for a retail client, attributing incremental sales per marketing channel. Designed an **optimizer** for spending recommendations across various budget scenarios at both state and national levels.
- Developed the data science backend for a **supply chain risk mitigation platform** for tracking risk alerts and generating insights concerning multiple performance metrics. Established a **rule engine** for notifying transactions with a possible drop in a performance metric.

### Wipro

Data Scientist Intern

Aug. 2021 – Oct. 2021

Chennai, India

- Developed a Dataiku DSS application for **streamlined promotions** and **personalized marketing**, targeting key customers to boost revenue, while implementing and fine-tuning ML algorithms to predict expected revenue for test and control groups.
- Utilized clustering techniques and **RFM** (Recency, Frequency, Monetary) analysis to segment and profile customers, optimizing margins and enhancing marketing effectiveness.

## SKILLS & TECHNOLOGIES

**Fields of Interest:** Machine Learning, Deep Learning, NLP, Transformer, GPT, BERT, Pre-training & Finetuning of LLMs (RLHF, DPO), RAG, Multimodal LLMs, Distributed Training, Reinforcement Learning

**Developer Tools:** Git, PyTorch, JAX, Databricks, PySpark, PyMC, FastAPI

## ACHIEVEMENTS & EXTRACURRICULAR

**Academic:** Secured All India Rank of 315 in GATE 2021 (Mining Engineering paper), Secured All Kerala Rank of 409 in KEAM Entrance Exam 2017 (out of 91,000 candidates), Secured All India Category Rank of 3096 in JEE Advanced 2017 (out of 1,50,000+ candidates)

**Extracurricular:** Member of the Bronze Medal-winning football team representing Meghnad Saha Hall of Residence in IIT Kharagpur General Championship 2019

**Others:** Project Champion Award (Nov. 2023) For contributions to the development of a supply chain risk mitigation platform, BHC Project Award (Mar. 2024) For developing a marketing mix model and budget optimization for a retail chain.