

# Mohit Sai Sekharamahanthi

mohith.sekharamahanthi.2002@gmail.com | +447355641845 | linkedin.com/in/mohit-sai-sekharamahanthi/ | London, UK

## PROFESSIONAL SUMMARY

Having recently graduated with an **MSc in Data Science** from **Loughborough University** and over **2 years of experience** in **data analytics** at **Capgemini**, I am actively seeking opportunities as a **Data Analyst**. I have the **right to work in the UK**.

## EDUCATION

**MSc in Data Science** | Loughborough University | 2023 – 2024

- **Modules:** Machine Learning and Artificial Intelligence, Statistical Analysis and Modeling, Data Visualisation and Storytelling
- **Dissertation:** Deep Learning-based Predictive Maintenance for Manufacturing Systems

**BTech in Electronics and Communication Engineering** | Vignan University, India | 2017 – 2021

- **Modules:** Applied Machine Learning, Data Structures and Algorithms, Data Analysis with SQL and Python

## WORK EXPERIENCE

**Data Analyst** | Capgemini | September 2021 – September 2023 | Mumbai, India

- Automated **50+** ETL pipelines using **Python** and **SQL** for Disney, reducing manual reporting workload by **30%**.
- Designed and built **10+ Power BI** and **Tableau** dashboards to track KPIs, increasing stakeholder engagement by **40%**.
- Deployed churn prediction ML models with **SHAP** across **5+** teams, improving stakeholder trust and driving a **25%** increase in model adoption.
- Optimised PySpark and Snowflake workflows in an Agile environment, improving data query performance by **25%**.

## PROJECTS

**Customer Churn Prediction**

- Developed an XGBoost model ( $\approx 85\%$  accuracy) on 7K+ customer records to identify churn risk and integrated a Flask API with Power BI for near real-time stakeholder reporting.
- Automated a PySpark-based data pipeline, reducing preprocessing time by **30%** and contributing to an estimated **£60K** in annual operational savings.

**Fraud Detection with GNNs**

- Built a real-time fraud detection system using Graph Neural Networks (PyTorch Geometric) and Neo4j, achieving **92% recall** on high-risk transactions.
- Designed a Kafka-based streaming pipeline and subgraph optimisation process, improving detection latency by **40%** for large transaction graphs.

## EXTRACURRICULARS

**Academic Support Volunteer** | Make A Difference (MAD) | September 2018 – September 2020 | India

- Mentored 10+ students from underserved backgrounds weekly, contributing to a **33%** improvement in academic engagement over 6 months.

## TECHNICAL SKILLS

- Python (Pandas, NumPy, Scikit-learn, TensorFlow, XGBoost), SQL, Power BI, Tableau, PySpark, Snowflake, Neo4j, Kafka, Flask, PyTorch Geometric, SHAP, Git.

## CERTIFICATIONS

- IBM Data Science Certificate, Google Advanced Data Analytics Certificate.