MOOSA MOHAMED

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EXPERIENCE

Data Scientist (L2)
Swiggy - Data Science

📅 June 2021 - January 2023   📍 Bengaluru, India

Part of the Market Fulfilment Platform team, which worked on the fulfilment and post order experience of orders across service lines.

Instamart - Quick Grocery

- Built and deployed multiple real-time delivery prediction models for Swiggy Instamart throughout its journey, scaling it from **30,000 orders to 500,000+ orders** a day. These models are consumer facing and power the assignment and logistics systems at the company.
- These models utilized machine learning techniques and neural nets to analyse and transform millions of rows of data. Enhancements made across releases captured tail events better significantly reducing delayed orders from **5% to 2%** and reducing early deliveries from **40% to 17%** driving value and setting the right delivery expectations to customers.

Genie - Pickup and Drop

- I served as a mentor to a junior Data Scientist, helping her to create the first consumer-facing model for Genie, our pickup-and-drop service at Swiggy. This model was Ensemble-based and included components predicting different stages of the journey. Doing so, we reduced delays from **18% to 6%** as well as being more accurate (+3pp) in the process.
- The model was designed to be built upon for use in other areas like assignment and logistics as well as providing the tracking and estimated time of arrival of delivery executives.

Food Delivery: Conducted key analyses on anecdotes raised across the org. These provided actionable insights on corrections and the path forward.

Achievements: For key contributions to the business, I was awarded the Certificate of Excellence on September 2022 during Instamart's 2nd anniversary event. I was promoted to a Data Scientist 2 on October of the same year.

Research Scientist Intern
Swiggy - Applied Research

📅 January 2021 - June 2021   📍 Bengaluru, India

- Designed and built a **BERT-based category classifier** from the free text description of items provided by customers. Classifying these customer transactions into multiple categories helped us understand the market needs for different customer segments.
- Submitted a study on Active Learning for multi-class text classification to understand its potential use throughout the organisation in **reducing annotation costs by 85%**

BI Analyst Intern
Solar for Schools

📅 June 2020 - August 2020   📍 Bury St Edmunds, UK

- Gathered, organised and structured core-generation and financial data of over **150 schools** around Europe and Asia.
- Performed quantitative and qualitative business analysis to provide useful insights in the form of metrics, visuals and reports.
- Also prepared a "**one stop shop**" of information for remote management and maintenance of assets.

EDUCATION

Université de Montréal
M.Sc Computer Science

📅 2023 –2025

- Specializing in Deep Learning Neural Nets
- Teaching Assistant for STT 1903 - Statistics

Indian Institute of Information Technology, Sri City
B.Tech in Computer Science and Engineering

📅 2017 – 2021

- GPA: 8.65
- Specialization in Artificial Intelligence and Machine Learning

Teaching Assistant
- **Courses**: Computer Programming, Advanced Software Engineering.

PUBLICATIONS

🎓 **Multi-class Text Classification using BERT-based Active Learning**
DaSH@KDD 2021

EXTRA-CURRICULARS

🎓 **ABM Research Group @ IIITS**
Member since August 2019

⭐ **Abhisarga, IIITS' Annual Techno-Cultural Fest**
Sponsorship Team Lead (2019 - 2020)

STRENGTHS & SKILLS

Hard-working   Eye for detail

- **Languages**: C, C++, Python, MATLAB, JavaScript
- **Frameworks**: Keras, Pytorch, Tensorflow, Scikit-Learn, Spark, Scala
- **Tools**: AWS (Sagemaker), Pandas, Databricks, Colab

PROJECTS

Search and Keyword Generation
- Using Sentence Bert and YAKE to search through articles on the web and further generating keywords.

Autonomous Driving Simulation
- Processing LiDAR point clouds for object detection.