

# Mohammed Arslaan Kola

Nottingham, United Kingdom

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## PROFILE

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A dynamic and results-driven Data Analyst with 4 years of experience in data science, engineering, and community management. I specialize in leveraging machine learning, large language models, and advanced data analysis techniques to enhance sector visibility, operational efficiency, and data accuracy. My work has significantly improved industry classification, boosted project capabilities, and maintained high data integrity. Additionally, I have experience in community management, where I increased revenue, enhanced visualization and reporting, and promoted entrepreneurship. I am proficient in Python, R, various data visualization tools, and database management. I am looking for opportunities in innovative organizations where I can apply my expertise to drive data-driven decision-making and contribute to groundbreaking projects.

## EXPERIENCE

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### Data Analyst

Oct 2024 – Present

Clearing, Nottingham, United Kingdom

- **Developed and Maintained Power BI Dashboards:** Designed, developed, and deployed 20+ interactive dashboards and reports using Power BI to support cross-functional teams in finance, operations, and compliance. Ensured accuracy by integrating data from multiple sources and stress-testing data models.
- **Streamlined Reporting Processes:** Reduced reporting time by 30% by automating data workflows, implementing advanced data cleaning and transformation pipelines, and optimizing data refresh processes for large datasets.
- **Data Integration and Modelling:** Integrated data from APIs, SQL servers, and other sources to create robust, scalable data models that powered actionable business insights.
- **Collaboration with Stakeholders:** Partnered with senior leadership and department heads to translate business requirements into insightful dashboards, improving decision-making across global offices (UK, Singapore, Canada, North America).
- **Enhanced Report Performance:** Diagnosed and resolved Power BI performance issues, improving load times by 40% and ensuring real-time updates for critical operational dashboards.
- **Training and Knowledge Sharing:** Provided training and support to non-technical stakeholders, enhancing data literacy and enabling teams to leverage self-service BI tools effectively.

### Data Analyst

Sep 2023 – Aug 2024

The Data City, Leeds, United Kingdom

- **Enhanced Sector Visibility:** Improved industry classification and sector visibility by collaborating with the **UK's Department of Science, Innovation, and Technology**. Utilized machine learning, resulting in a 20% increase in classification accuracy.
- **Boosted Operational Efficiency:** Developed and deployed applications using Large Language Models (LLMs) such as LLAMA-2 and Mistral 7B on Amazon EC2. Increased project capabilities and operational efficiency by 35%.
- **Increased Data Accuracy:** Maintained dynamic company directories for trade associations, which enhanced data accuracy by 30% and highlighted the scale of the UK's emerging economy.
- **Created Comprehensive Datasets:** Compiled a dataset with over 450 million data points, including 90+ data points per company, for a national directory product.
- **Promoted Cutting-edge Sectors:** Instrumental in implementing The Data City's innovative approach to industrial classification, focusing on emerging sectors like AI, FinTech, and NetZero. This initiative positioned the company as a leader in real-time industrial data.
- **Partnership Projects:** Led projects with multiple clients, that mapped the UK's fastest-growing sectors and clusters by analysing data from over 5 million UK companies across 350 emerging economies.

### Community Manager

Dec 2020 – Jul 2022

K-tech Innovation Hub, Mangalore, India

- **Increased Revenue and Market Capture:** Developed and implemented strategies that increased revenue by 20% and captured niche markets, significantly boosting startup engagement.
- **Enhanced Visualization and Reporting:** Designed interactive dashboards using Power BI to convey the startup journey and growth, providing stakeholders with clear and actionable insights.
- **Maintained Industry Relationships:** Kept abreast of the latest developments by maintaining strong relationships with key government and industry associations, ensuring alignment with market trends.
- **Achieved High Customer Satisfaction:** Provided analytics insights that helped clients better understand their businesses, leading to a 95% customer satisfaction rate.

- **Promoted Entrepreneurship:** Conducted workshops that increased attendance by 40%, promoting entrepreneurship among students and emerging entrepreneurs.
- **Expanded Business Network:** Planned and organized monthly events, generating engaging content that resulted in 20 new business connections per month.

**Lead Design Engineer**  
Solic, Mangalore, India

Aug 2019 – Nov 2020

**Circuit Designer & Software Developer - Intern**  
D&D Smart Labs, India

Jun 2018 – Jan 2019

## TECHNICAL SKILLS

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- **Python:** Gen Ai, Langchain, Numpy, Pandas, Matplotlib, PyTorch, Seaborn, Scikit-learn
- **R:** Statistical analysis, Visualization, Predictive modelling, Time series forecasting
- **Data Visualization tools:** Power Bi, Excel
- **Databases:** MySQL, SQL Server, Snowflake, ChromaDb
- **Hosting platforms:** Bitbucket, GitHub
- **Programming Languages:** Python, R, C#, C, Pine Scripting
- **Operating system:** Windows, Linux and Unix
- **Software tools:** AWS, RStudio, Jupyter notebook, PyCharm, Visual Studio Code
- **CRM Software:** Salesforce, HubSpot, Zoho CRM, Microsoft Dynamics CRM

## PROJECTS

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- **Company Insights Chatbot Using Large Language Models**
  - Led the development of a chatbot application utilizing The Data City's vast datasets.
  - This project involved experimenting with Large Language Models (LLMs) to enhance data accessibility and user engagement.
  - GitHub link: [https://github.com/TheKola/LLM\\_Exploration\\_OpenAI.git](https://github.com/TheKola/LLM_Exploration_OpenAI.git)
- **Cryptocurrencies Price Update using Python**
  - Planned and implemented a Python-based cryptocurrency screener that provided real-time updates on Telegram, including coin names and percentage changes in the previous 5 minutes.
  - Improved decision-making for investors by providing accurate and timely information by using data science techniques such as data scraping, cleaning, and visualization.
  - GitHub link: <https://github.com/TheKola/Crypto-Telegram-Updates.git>
- **Snake Game using C#**
  - Established the game of Snake using C# programming language with different levels of difficulties and game modes.
  - Attained project objectives by using object-oriented and modular programming approach.
  - GitHub link: <https://github.com/TheKola/Snake-Game.git>
- **Railway Management System**
  - Developed and executed railway booking system using Python and using MySQL as a back-end database to allow users to book, cancel and check for tickets.

## EDUCATION

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**Master's in Data Science**

Nottingham Trent University, United Kingdom

Sep 2022 – Aug 2023

Distinction

**Bachelor's in Electronics and Communication Engineering**

St Joseph Engineering College, India

Jul 2015 – Jun 2019

7.4 CGPA

**Pre-University**

Sharada Pre-University College, India

May 2013 – Feb 2015

88%

## CERTIFICATIONS

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- Google Data Analytics (2022) | Google
- Introduction to Data Science in Python (2022) | University of Michigan
- Using Python to access Web Data (2022) | University of Michigan
- Excel Skills for Business, Specialization (2021) | Macquarie University