

KAUSTUBH KULKARNI

Newcastle, UK | +4407909306608 | kulkarnikaustubh28@gmail.com | [LinkedIn](#) | [GitHub](#) | [YouTube](#)

Summary

Analytical and results-driven Data Scientist with 2+ years of industrial experience specializing in data analytics, data engineering, and cloud computing. Skilled in deriving actionable insights from complex datasets, building robust data pipelines, and delivering high-quality machine learning and visualization solutions. Proven expertise in SQL, Python, and statistical modelling to solve real-world business problems.

Experience

Data Scientist – Research Intern

Sept 2024 – Nov 2024

Newcastle University, UK

- Conducted in-depth analysis of UK EV charging station data over four years, identifying peak usage times, geographic demand trends, and seasonal patterns.
- Discovered key factors influencing EV station usage: periodic impact, user preferences, and carbon emission effects.
- Performed sentiment analysis on survey data, simplifying customer requirement insights using NLP techniques.
- Delivered findings via interactive dashboards and visualizations to guide regional infrastructure planning.

Data Engineer

Aug 2021 – Aug 2023

Capgemini, Pune

- Developed and optimized 100+ BigQuery queries, enhancing data-driven decision-making by 30%.
- Maintained and monitored Google Cloud Dataflow pipelines, achieving a 20% reduction in downtime.
- Streamlined data transformation processes in BigQuery, reducing processing times by 25%.
- Implemented system monitoring and alerts, ensuring high pipeline reliability.

Education

Newcastle University

Sept 2023 – Sept 2024

MS (Master of Science) in Data Science

- **Coursework:** Machine Learning, Deep Learning, Statistical Learning for Data Science

Pune University

June 2017 – May 2021

B.E. (Bachelor of Engineering) in Computer Engineering

- **Coursework:** Data Structures, Web Development, Database Management System (DBMS)

Skills

Languages – Python, SQL, R, HTML, CSS, Bootstrap.

Libraries / Tools – Pandas, NumPy, Matplotlib, Seaborn, PowerBI, TensorFlow, Keras, NLTK, Xgboost, Google Cloud Platform, GitHub, Looker Studio, Visual Studio Code, R Studio.

Technologies – Data Analysis, Machine Learning, Deep Learning, NLP, Time-Series Analysis, Statistical Modelling.

Projects

Analysis of EV charging stations usage and trends in the UK

- Conducted time-series analysis in Python, uncovering significant usage variations in three UK regions.
- Utilized statistical methods to examine distribution patterns and seasonal demand shifts.

Learning Analytics Project

- Analysed learner demographics for a Newcastle University course, identifying target audiences and improving course structure for future sessions.

Statistical Learning for Data Science

- Developed and cross-validated three machine learning classifiers, achieving a 96.78% accuracy rate on historical patient data.

Publications

Analysis of electric vehicle charging station usage and environmental sustainability in the UK

Nov 2024

<https://doi.org/10.1049/icp.2024.3760>

Kaustubh Kulkarni, Sanchari Deb, Colin Herron

Certifications

- [IBM Professional Data Scientist](#)
- [Google Associate Cloud Engineer](#)