

Utkarsh Balooni

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EDUCATION

University of Leeds

Leeds, United Kingdom
Sep 2023 – Sep 2024

M.Sc. Data Science and analytics

Relevant Coursework: Multivariate Analysis and clustering, Data Science, Time series and spectral analysis, Business analytics and decision science, Deep learning, Data mining and text analytics, transport data science.

Grade (expected): **Distinction**

Indian Institute of Technology, Madras

Chennai, India
Jan 2022 – Apr 2023

Diploma in Data Science

Relevant Coursework: Mathematics, Statistics in Data Science, Tools in data science, ML foundation, ML techniques, ML practice, Business Data Management, Business Analytics.

Grade: **9.71/10**

St. Stephen's College

Delhi, India
Aug 2019 – May 2022

B.Sc.(H) Physics

Relevant Coursework: Programming with Python, DBMS, Mathematical Physics, Numerical Methods, Differential Equations, Computational Physics, Advanced Mathematical Physics, English.

Grade: **8.45/10**

WORK EXPERIENCE

Practera

Remote
Jan 2024 – Feb 2024

Virtual Internship Programme

- **Led a team of three** to develop and implement market entry strategies for a German startup.
- Conducted **comprehensive market research** in the intergenerational day care services sector.
- Delivered detailed **competitor analysis, identified barriers to market entry, and assessed potential customer demographics.**

Feynn Labs

Remote
May 2023 – Aug 2023

Machine Learning Intern

- Acquired expertise in **market segmentation analysis through machine learning**; prepared a detailed report on segmenting McDonald's customers based on food preferences.
- Designed a **product prototype for an automated data entry service** using OCR technology, and developed monetization strategies and operational models.
- Conducted **market segmentation analysis of the electric vehicle consumer market in India**; gathered relevant data and extracted key insights on geographic and demographic segments.

Higgz Academia Technology PTE LTD.

Freelance · Remote
Mar 2023 – Jul 2023

Subject Matter Expert (Mathematics)

- Provided **accurate and concise solutions to 30+ K-12 Math questions** daily.
- Ensured high-quality responses by thoroughly reviewing and verifying each solution for correctness and clarity.

SpacECE India foundation (NGO)

Remote
Oct 2021 – Dec 2021

Research Intern

- Compiled daily reports on tasks involving **statistics and data analytics.**
- Developed a research questionnaire to explore the relationship between parenting quality and early childhood education in 6-year-olds.
- Conducted basic statistical analysis and EDA on the collected data and generated insights for further research.

SKILLS

Programming Languages: Python (numpy, pandas, scikit-learn, seaborn) , R (sf, ggplot2, dplyr), C++, Fortran

Word Processing: Latex

DBMS: SQL

Data Visualisation: Tableau, ggplot2, Flourish, Power BI

Web scraping: BeautifulSoup, Scrapy

PROJECTS

Business Data Management Capstone Project

Feb 2023 – Apr 2023

- Managed stockouts and optimized inventory levels in a healthcare manufacturing factory.
- Collected and **analysed 2.5 years of data** on raw material and packing material usage.
- Conducted **ABC-VED analysis** to categorize inventory and provided insights on future demand using forecasting techniques. Also estimated **safety stock and reorder points** for high-value products.
- Identified seasonality patterns in the pharmaceutical industry.

Road safety analysis of motorists and motorcyclists in Leeds

Mar 2024 – May 2024

- Used **GIS packages in R, Open Street map data, and accident data** for 2018-2022 to identify crash hotspots in Leeds.
- Conducted **black spot analysis** to determine the most accident-prone roads in Leeds.
- Utilized **classification modelling and association rule mining** to identify key factors affecting accident severity.
- Compiled analytical results and provided recommendations for policymakers.
- Link to the project - https://github.com/utkarsh11252/tds_coursework