



Yash Uday Sule

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PROFILE

Versatile professional with a Data Science master's from Nottingham Trent University and a background as a Teaching Assistant in Applied Mathematics as well as a Data Analyst in UK – based IT Consultancy Company. Proficient in Excel, Python, R, SQL, C#, Java, and MATLAB. Proven track record in guiding students, translating complex data into actionable insights, and contributing to impactful research. Skilled in machine learning, advanced statistical methods and data visualization. Known for meticulous problem-solving and a commitment to driving innovation. Ready to apply diverse programming expertise and analytical skills to real-world challenges in Data related fields.

SKILLS

- Operating System: Windows and Ubuntu (Linux).
- Programming Languages: Python, R, SQL – Relational / Non - relational, C, C++, C#, Java, MATLAB.
- Web: HTML, CSS, Javascript.
- BI tools: Microsoft PowerBI with DAX implementations, Tableau, Google Looker.
- Microsoft Word, PowerPoint, advance Excel (Power Query, Power Pivot), Forms, Outlook, Teams, One Drive.
- Google Sheets, Docs, Slides, Meet and Forms.

PERSONAL ACHIEVEMENTS [Certificates / Projects]

Certificates:

- Course Completed on “Jira Fundamentals” and got Jira Fundamentals badge, Atlassian University.
- Course Completed on “SQL Fundamentals”, (21 Hours), Datacamp.
- Achieved Microsoft Certification for Azure Fundamentals (AZ – 900).
- Achieved Microsoft Certification for Azure Data Fundamentals (DP – 900).
- Achieved Microsoft Certification for Azure AI Fundamentals (AI – 900).

Projects:

Analysing Sales / Promotions in FMCG Domain – Atliq Mart [MySQL | PowerBI] [\[Link\]](#)

- Executed SQL queries statements to address various business requests from the sales director and manager.
- Build a PowerBI dashboard covering important KPI's (sales & revenue before / after promotion, incremental sales unit (ISU), incremental revenue (IR)) to track overall performance across cities, categories, products and promo-types.
- The dashboard help sales director and stakeholders to identify key issues before investing in their next promotion year. These analytical insights could help them make informed data driven decisions much faster than earlier.

Analysing and Visualizing Alzheimer's Patient Dataset – [R-Studio] [\[Link\]](#)

- Conducted a thorough descriptive analysis using inbuilt R – functions for the dataset containing 90 subjects' details that went through 100 trails each for two cognitive tasks.
- Used inbuilt R – functions and implemented statistical techniques such as hypothesis and normality testing to provide evidence for different claims.
- Generated appropriate graphs such as histograms, boxplots, QQ- plots to support analytical insights using R-Studio.
- These statistical analysis helped them to understand whether either age or sex is responsible for Alzheimer's disease.

Action Spotting in Football Matches – [Python – numpy, json, tensorflow, sklearn, matplotlib, seaborn | Excel] [\[Link\]](#)

- Carried out a thorough literature survey regarding “Video Understanding” and develop deep learning models related to its sub – topic “Action Spotting” in Football Matches.
- Used a sub – sample dataset of “SoccerNet” (~ 500+ games) having information regarding 6 football matches (36 pre-extracted feature files (.npy format) and 6 action labelled files (.json format)) amounting to a storage size of 2GB from English Premier League season 2014/15.
- Utilizing 3 different types of pre – extracted features and with 4 different pooling techniques, developed 12 deep learning models that can identify whether a video frame is an action frame or a non – action frame using various Python inbuilt libraries. Model performance was evaluated using confusion matrix, F1 score, ROC and AUC curve.
- Among 12 models, two deep learning models outperformed giving F1 score of 0.4850 and 0.5026 respectively.

WORK EXPERIENCE

Nottingham Trent University (Clifton Campus, Nottingham, England, UK), Research Associate **May 2023 – July 2023**

- Read research articles, journals for the topic "Video Steganography".
- Prepared documentations using Word to record important definitions, formulas and relevant algorithms.
- Designed presentations using PowerPoint to explain the process of "Video encoding" to the supervisor.
- Generated a dataset that contains 4 mp4 videos and bitstream files with the help of Video encoder - decoder software such as HM software, along with MATLAB and FFmpeg.

Orcalo Holding Ltd (Uxbridge, London, England, United Kingdom), Data Analyst **July 2022 – Feb 2023**

- Learnt about project management and customer relationship management tools such as Jira and Hubspot.
- Prepared presentations and reports having graphical representations and insights using Powerpoint and Word.
- Used Airtable for creating the database to collect and maintain data.
- Performed various tasks such as data cleaning and building visualizations in Excel.
- Designed dashboards using PowerBI by performing ETL and used Python for exploratory data analysis.
- Acted as a sub-ordinate Team leader and handle 5 - 6 employees for various tasks such as guiding, assigning work and validate their work.
- Generated mindmaps relating to data points for a project using Miro tool.

The Maharaja Sayajirao University of Baroda (Vadodara, Gujarat, India), Temporary Teaching Assistant **Feb 2014 – June 2021**

- Prepared and delivered lectures of Applied Mathematics and Statistics to graduate Engineering and Pharmacy students having atleast 60 - 100 students per batch.
- Offered clear direction, guidance and explanations to 15 final year post-graduate students and supported them for their project work.
- Taught Multivariate Calculus and Mathematical Analysis, Fundamentals of Statistics, Scientific programming and Mathematical softwares, Numerical Techniques in Finance, Portfolio Theory and Asset Allocation to post-graduate Financial Mathematics students for 3 – 4 years.
- Taken practical sessions for programming languages such as Python, R- Studio, MATLAB, C++, Java, HTML.
- Taken practical lab sessions for modules like Computational Fluid Dynamics, Neural Network and Fuzzy Sets & Systems using MATLAB software for Industrial Mathematics students having top 10 students each year.

Babaria Institute of Technology, Assistant Professor (Ad – hoc) **July 2013 – Feb 2014**

- Planned course instruction based on the approved syllabus/course outline provided to assure course content and learning objectives were met.
- Identified and assisted at-risk students while eliminating student barriers to learning.
- Provided academic support to students, tutoring; if necessary, and other assistance as needed (motivator, counselor, etc.)

EDUCATION

Nottingham Trent University (Nottingham, England, UK). **Sept 2021 – Sept 2023**

- **M.Sc. Data Science:** Post-graduation with Commendation (2:1).

The Maharaja Sayajirao University of Baroda (Gujarat, India). **July 2011 – April 2013**

- **M.Sc. Applied / Industrial Mathematics:** Post-graduation with Distinction (78%).

The Maharaja Sayajirao University of Baroda (Vadodara, Gujarat, India). **July 2008 – April 2011**

- **B.Sc. Mathematics:** Graduation with Second Class.

REFERENCES

Available upon request.