

Yashwanth Madyala Venkata

Data Analyst | “Open to Sponsorship” | Graduate Visa (UK)

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[GitHub](#) | [LinkedIn](#)

Professional Summary

Data Science graduate with hands-on experience in building ETL pipelines, developing data models, and creating interactive dashboards using SQL, Python, and Power BI. Skilled in data visualisation, reporting, and stakeholder engagement, with practical exposure to cloud platforms like AWS and Snowflake. Successfully delivered projects that improved reporting efficiency by 80% and optimised query response time. Actively seeking full-time Data Analyst roles with sponsorship availability in the UK.

Education

M.Sc. Data Science and Big Data Analytics (MERIT)

Wrexham University, Wrexham, UK

Jan 2024 – Aug 2025

Dissertation: Developed an LLM-based RAG chatbot to enhance real-time query resolution.

- Identified the need for efficient customer query handling using AI.
- Integrated FastAPI, MySQL, and FAISS to build a cost-effective retrieval chatbot.
- Achieved 90% query accuracy and reduced response time by 2–3 ms.

Relevant Modules: Data Mining, Advanced Analytics, Machine Learning, Big Data Tools, Data Visualisation

B.Tech. Mechanical Engineering (First Class)

Jayaprakash Narayan College of Engineering, India

Jul 2019 – Aug 2022

Final semester Project: Led a 4-member team to design and build an Automated Shutter Opener system.

- Identified the need for an affordable automation solution for small-scale industries.
- Designed and implemented the prototype using mechanical and electrical components, taking charge of technical planning and testing.
- Delivered a functional prototype that improved production estimation and streamlined team coordination.

Relevant Skills: Problem Solving, Analytical Thinking, Process Optimization, MS Excel, Technical Documentation, Team Leadership

Technical Skills

Programming & Databases: SQL, Python, R, Snowflake, MySQL

Data & Analytics: ETL, Data Modelling, Data Transformation, Forecasting, A/B Testing

Visualisation & BI Tools: Power BI, Tableau, Excel

Cloud & Platforms: AWS, Azure, SAP

Soft & Transferable Skills: Data Storytelling, Stakeholder Engagement, Problem Solving, Team Collaboration, Time Management

Productivity & Collaboration Tools: Notion, HubSpot, Slack, Discord, Office 365

Projects

UK Crime Data Analytics Dashboard | Python, SQL, Power BI, Pandas, ETL

- Targeted to transform large-scale UK crime data into actionable insights.
- Built an automated ETL pipeline to ingest and clean 1M+ records using Python and SQL, then developed interactive Power BI dashboards to visualise hotspots, trends, and severity.
- Reduced manual reporting time by ~80% through scheduled auto-refresh and delivered real-time insights for decision-making.

Restaurant Management SQL System | SQL, MySQL, Python

- Aimed to design a structured and efficient data system for restaurant operations.
- Designed a normalised database schema and implemented CRUD operations with SQL and Python scripts to manage menu, orders, and billing.
- Improved data accuracy and reduced manual errors by automating data workflows.

YouTube Comment Sentiment Analysis | Python, Streamlit, NLP

- Needed a quick solution to analyse sentiment from user-generated content.
- Extracted 5K+ comments via YouTube API, applied NLP techniques for sentiment classification, and built an interactive Streamlit dashboard.
- Delivered sentiment insights in real time, reducing analysis time from hours to minutes.

Experience

Developer Intern | JCTEK Ltd. | Manchester, UK | Feb 2025 – Apr 2025

- Assigned to support the development of a client-facing web platform to streamline data input and management.
- Designed and implemented a user-friendly data entry interface, integrated real-time updates with backend services. Collaborated with the design team to create SEO-friendly graphics.
- Improved data handling efficiency and contributed to enhanced site performance, ensuring seamless client interactions.

Student Ambassador (Researcher) | Wrexham University | Wrexham, UK | Mar 2024 – May 2024

- Part of a university research initiative focused on generating innovative project ideas.
- Extracted and processed abstracts from 1,000+ academic journals and collaborated with LLM tools to generate 2,000 research project titles.
- Accelerated the research ideation pipeline and contributed to structured knowledge organisation for academic teams.

Data Engineering Trainee | Latent View Analytics | Chennai, India | Oct 2022 – Feb 2023

- Onboarded to learn and support cloud-based data engineering activities.
- Trained in Snowflake data warehousing and worked with cloud storage platforms (Azure, AWS) to support ingestion and transformation tasks.
- Gained foundational experience in cloud data architecture and ETL concepts used in enterprise analytics.

Certifications

Full-Stack Data Science Bootcamp – Vertocity

- Completed end-to-end data science training covering Python, web scraping, data cleaning, visualization, and model building.
- Developed a web scraping and analysis project demonstrating data pipeline creation and insight generation.

Introduction to MS Excel – Simplilearn

- Gained practical skills in data formatting, basic analytics, pivot tables, and dashboard building.

Data Visualisation – Great Learning

- Learned visualisation best practices and developed interactive dashboards to communicate insights effectively.

Leadership & Responsibilities

Technical Assistant – Automated Shutter Opener Project (Diploma)

- Acted as the technical lead within a 4-member team, supporting prototype design and execution.
- Coordinated team efforts, estimated production timelines, and managed group responsibilities to ensure timely delivery.

Class Representative – Final Year (B.Tech)

- Served as the primary liaison between students and faculty, resolving academic queries and facilitating smooth communication.
- Strengthened decision-making and interpersonal skills by guiding classmates and maintaining classroom harmony.