

Indhu Shree Prakash

Birmingham, UK | +44 7799045604 | indhushreegiri03@gmail.com | [LinkedIn](#) | [GitHub](#) | [Portfolio](#)

Data Engineer pursuing MSc Advanced Computer Science with 1.5 years of experience in data engineering, analytics, and business intelligence. In my career, I have reduced manual reporting effort by 40%, improved dashboard load times by 35%, cut data inconsistencies by 50%, and optimised reporting solutions, processing 20M+ records. Committed to delivering reliable data pipelines, scalable data models, and accurate reporting solutions that support data-driven decision-making.

Expert In

Programming: Python, SQL

Data Engineering & Analytics: ETL/ELT Pipelines, APIs, Data Modelling, Dimensional Modelling, Data Quality & Validation, Performance Optimisation, Pandas, Power BI, DAX, Google Analytics

Cloud Platform & Tools: AWS, Docker, LocalStack, Git, Excel

Database: MSSQL, MySQL, Snowflake

Professional Practices: Stakeholder Management, Requirements Gathering, Agile Development, Software Development Life Cycle

Professional Experience (1.5 years)

Data Analyst (Engineering Team), Severn Trent Water Supply

Feb 2026 – Apr 2026

- Analysed 1,449 days of wastewater flow data and 240 water-quality measurements to evaluate the effectiveness of a constructed wetland treatment solution, identifying 463 overflow events, seasonal trends, and compliance risks.
- Automated compliance assessment reporting and delivered an executive dashboard tracking 5 KPIs across 6 visualisations, reducing manual analysis effort and supporting projected 100% regulatory compliance.

Business Intelligence Reporting Analyst, Boomi Software India Pvt Ltd

Jan 2025 – Jul 2025

- Delivered 3 production grade dynamic Power BI dashboards applying Software Development Life Cycle (SDLC) practices to enhance stakeholder data accessibility and decision-making.
- Optimised a legacy analytics dashboard integrating 32 source tables and ~20 million records, reducing report size from 6 GB to 2.8 GB, improving load times by 35% and lowering query costs by 20% through SQL and data model optimisation.
- Reduced reporting workload by 40% and data inconsistency incidents by 50% through automated data refresh workflows, SQL optimisation, and validation processes, improving reporting accuracy and reliability.

AI & Analytics Analyst, Cognizant Technology Solutions

May 2024 – Jun 2024

- Developed a Natural Language-to-SQL analytics assistant using Flask and Gemini API, enabling conversational access to 626K+ business records across 14 relational tables and simplifying business reporting for non-technical users.
- Reduced pre-processing errors by 25%, improving input quality and analytics reliability.

AI Analyst, Infosys Springboard

May 2024 – Aug 2024

- Evaluated OpenAI embeddings, vector search (Qdrant + MiniLM), and machine learning approaches for candidate-job matching, identifying vector search as the optimal balance of scalability and performance with 92% retrieval accuracy, exceeding machine learning methods by 4–8 percentage points.
- Built a resume-to-job-description semantic matching system using vector embeddings and ranked retrieval, surfacing the most relevant opportunities from 50+ job descriptions and reducing manual screening effort.

Selected Projects

Serverless Image Analyser

2026

Built a serverless image analysis pipeline processing 25+ images through an automated S3-triggered Lambda workflow.

AI StudyMate – Retrieval-Augmented Generation System

2025

Built a 6-module RAG-based learning assistant integrating 4 external services for semantic retrieval and AI-generated study resources.

BI Reporting Chat Interface

2024

Developed a self-service analytics platform enabling non-technical users to generate insights and export reports across 2 formats without SQL expertise.

Education

MSc Advanced Computer Science, University of Birmingham, UK

2025 - ongoing

B.Tech Computer Science & Engineering, Dayananda Sagar University, India

2021-2025

Certifications

AWS Certified Cloud Practitioner | AWS Generative AI Foundations | IBM SQL Databases