

GOKUL PRASATH RADHAKRISHNAN

140 Bath Row, Birmingham, B15 1NQ | +44 7443720862 | gokulprasath1609@gmail.com | [Portfolio](#) | [LinkedIn](#) | [Github](#)

Data Warehouse Engineer with MSc in AI & ML | 2+ Years' Experience in ETL, Azure, and Cloud Data Platforms | Skilled in Building Scalable, Reliable Data Solutions

Education

MSc Artificial Intelligence & Machine Learning , University of Birmingham. Modules: Neural Computation, Intelligent Data Analysis, Computer Vision, Evolutionary Computation.	09/2023 - 09/2024 United Kingdom
MSc, Data Science , Coimbatore Institute of Technology Modules: Statistics, Machine Learning, Natural Language Processing, Cloud Computing, Big Data (Hadoop).	07/2016 - 05/2021 India

Professional Experience

Data Warehouse Engineer , Holland and Barrett, United Kingdom	06/2025 - Present
<ul style="list-style-type: none">Supported strategic data initiatives aligned with the company's business roadmap.Collaborated with senior engineers on cross-functional projects.Covered for senior engineers to maintain business-critical deliverables.Built knowledge of enterprise data warehouse models to support wider projects.Assisted in platform modernisation:<ul style="list-style-type: none">Migrated Python UDFs to scalable solutions, improving performance.Contributed to data warehouse reliability enhancements and upgrades.	
Senior Data Engineer , Addend Analytics, Mumbai, India	08/2021 - 05/2023
<ul style="list-style-type: none">Built robust ETL pipelines for data integration across cloud and on-premise systems.Authored optimised stored procedures and performed data migrations and warehousing projects.Delivered process automation initiatives using Azure Data Factory, Logic Apps, and Event Hub.Designed and implemented CI/CD pipelines using Azure DevOps for automated deployments.Tuned complex SQL queries for performance and scalability.Collaborated with cross-functional teams to define and execute process improvement strategies.Administered and maintained Azure databases, including Azure SQL and Cosmos DB.Implemented Identity and Access Management (IAM) solutions, ensuring secure data access.Developed and executed cloud cost optimisation strategies across Azure services.	

Skills

<ul style="list-style-type: none">Programming & Scripting: Python, R, T-SQL, Dynamic SQL, FastAPI, MatplotlibData Engineering & ETL: Azure Data Factory (ADF), Azure Synapse Analytics, Azure Data Lake, Azure Event Hub, Azure Function App, Azure Logic Apps, Google BigQuery, AWS S3, AWS Lambda, Amazon Redshift, Matillion.DevOps & Infrastructure: ARM Templates, CICD, Azure DevOps, GitLab, Docker.	<ul style="list-style-type: none">Databases & Storage: Azure SQL, Azure Cosmos DB, SQLite, Data Warehousing, Data Modelling.Machine Learning & AI: Scikit-learn, PyTorch, TensorFlow, Keras, LangChain, Groq (LLaMA3), LLM, PySpark, Generative AI, Predictive Modelling.Data Security & Governance: IAM, Data Security Practices, Governance Frameworks.
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Coursework and Project

1. **Interpretable Machine Learning for Customer Behaviour Prediction** | [Link](#)
Developed a model to evaluate interpretability for algorithms. Designed metrics to balance accuracy and transparency, improving insights into customer behaviour predictions.
2. **Chat with SQL DB – Natural Language SQL Query App using Streamlit & LangChain** | [Link](#)
Developed a dynamic Streamlit-based app to interact with SQL databases via natural language using LangChain's create_sql_agent and Groq's LLaMA3 model. Enabled support for both SQLite and MySQL with real-time query execution, a multi-session chat interface, and performance optimisation with caching and agent streaming callbacks.
3. **Optimization Algorithms for TSP – Evolutionary Algorithm** | [Link](#)
Implemented and optimised Simulated Annealing and Genetic Algorithm for the Travelling Salesman Problem. Improved efficiency by 20% through parameter tuning, analysing performance on datasets of up to 100 cities.
4. **Data Analysis using Principal Component Analysis – Intelligent Data Analysis** | [Link](#)
Experimented with preprocessing and dimensionality reduction of numerical datasets using Principal Component Analysis to analyse and draw conclusions about the datasets to facilitate model training.
5. **Data Warehousing in Azure SQL – Data Engineering**
Designed ETL pipelines for multi-country data integration with robust auditing and failure notifications. Enabled incremental data loading and ensured 99.9% reliability.
6. **VSLA 2.0 – Data Engineering**
Developed event-driven ETL pipelines with multi-language support using Azure Translator, achieving 99.9% reliability.

Courses and Certifications

- **Microsoft Fabric - The Complete Guide - Udemy**
- **Azure Databricks & Data Engineering with Spark – Udemy**
- **Microsoft: Azure Administration (AZ-104), Valid till Jan 2026**
- **Microsoft: Azure Relational Database Administration (DP-300), Valid till Feb 2026**

Leadership & Awards

1. **Shining Star Award – Q4, 2022**, Addend Analytics, India
For consistent performance on complex projects (VSLA 2.0) and timely delivery with high dedication.
2. **Technical Training Sessions**, Addend Analytics, India
Delivered 5+ technical training sessions on advanced data engineering topics like Data Warehousing, Advanced SQL, and CI principles to a team of 15 colleagues, improving team efficiency by 25%.
3. **Spot Recognition – Aug 2022**, Addend Analytics, India
Recognised for the quality and timely delivery of the 'Navitas Semiconductor' project.