

GOKUL PRASATH RADHAKRISHNAN

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

A Data Science graduate with an MSc in Artificial Intelligence and Machine Learning from the University of Birmingham, holding almost 2 years of professional experience in data engineering. Proficient in designing ETL pipelines, Azure cloud tools, and AI/ML techniques, actively seeking opportunities to leverage skills in Data Engineering and AI to make a meaningful impact.

Education

MSc Artificial Intelligence and Machine Learning, University of Birmingham 9/2023 – 9/2024
Modules: Neural Computation, Intelligent Data Analysis, Computer Vision, Evolutionary United Kingdom
Computation | **Grade:** 64.44 | **Skills:** Generative AI, Python, Scikit-learn, PyTorch, PySpark, TensorFlow,
Keras, Pyannote, Docker, Matlab, Large Language Model (LLM)

MSc, Data Science, Coimbatore Institute of Technology 07/2016-05/2021
Modules: Statistics, Machine Learning, Natural Language Processing, Cloud Computing, Big Data India
(Hadoop) | **CGPA:** 7.58 | **Skills:** Python, R, Data processing and Visualisation

Professional Experience

Senior Data Engineer, Addend Analytics, Mumbai, India 01/2023– 05/2023
Designed ETL architecture, managed CI/CD pipelines, optimized SQL queries, and administered Azure databases.
Implemented IAM solutions and cost optimization strategies. | **Skills:** Data Modelling, Data Warehousing, T-SQL,
Azure Cosmos database, Azure Synapse Analytics, Azure DevOps, CI/CD, Terraform, Azure Function App, Python

Data Engineer, Addend Analytics, Mumbai, India 08/2021– 01/2023
Built ETL pipelines, authored stored procedures, and executed data migrations and warehousing projects. |
Skills: Azure Data Factory(ADF), Azure Logic Apps, Azure Data Lake, Google BigQuery, ARM templates,
Azure Event Hub, Dynamic SQL, Data Security and Governance, Python

NLP and Chatbot Intern, bitWise Academy, USA (Remote) 12/2020– 05/2021
Build a contextual AI tutoring chatbot (RASA) for primary students to support course-related tutoring.
| **Skills:** RASA, Python, NLP, NLU

Data Science Intern, Credo Systemz, Chennai, India 06/2019-11/2019
Built a customer propensity engine to predict course enrolment likelihood. | **Skills:** Python, Matplotlib, Machine
Learning, Predictive modelling

Coursework and Project

Interpretable Machine Learning for Customer Behaviour Prediction - Interpretable Machine Learning

Developed a model to evaluate interpretability for algorithms. Designed metrics to balance accuracy and transparency, improving insights into customer behaviour predictions.

Object Detection Using Deep Learning Models – Computer Vision

Trained and evaluated object detection models (Faster R-CNN, SSD, YOLO) using TensorFlow 2 on custom datasets. Optimized model performance with Google Cloud AI Platform and powerful GPUs for enhanced training efficiency.

MRI Segmentation – Computer Vision

Segmented MRI images using traditional techniques like Otsu thresholding, Canny Edge detection, and K-means clustering, achieving 76% accuracy for 2D slices. Extended to 3D segmentation with Mayavi, achieving 70% accuracy.

Optimization Algorithms for TSP – Evolutionary Computation

Implemented and optimised Simulated Annealing and Genetic Algorithm for the Traveling Salesman Problem. Improved efficiency by 20% through parameter tuning, analysing performance on datasets of up to 100 cities.

Data Analysis using Principal Component Analysis – Intelligent Data Analysis

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.

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.

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**
- **BCG GenAI Job Simulation on Forage - June 2024**
- **Microsoft: Azure Administration (AZ – 104), Valid till Jan 2026**
- **Microsoft: Azure Relational Database Administration (DP – 300), Valid till Feb 2026**

Leadership & Awards

Shining Star Award – Q4, 2022, Addend Analytics, India

Recognised for consistent performance on complex project (VSLA - CARE) and timely delivery of all tasks with high dedication.

Technical Training Sessions, Addend Analytics, India

Delivered 5+ technical training sessions on advanced data engineering topics like Data Warehousing, Advanced SQL and Azure Data Factory to a team of 15 colleagues, improving team efficiency by 25%.

Spot Recognition – Aug 2022, Addend Analytics, India

Recognised for quality and timely delivery of 'Navitas Semiconductor' project.