

## AKASH GANGADHARAN

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Experienced Data Engineer with 5 years of experience in architecting and developing robust data infrastructures and pipelines on cloud platforms like AWS & GCP. Proficient across full data engineering stack including pipeline development, ETL processes, database design, and data modeling. Currently seeking opportunities as a senior data engineer/scientist to take on greater technical leadership and strategic initiatives.

### WORK EXPERIENCE

#### Rocket Companies

**Detroit, United States**

Big Data Engineer Intern (Data Intelligence - AWS)

**May 2023 - Aug 2023**

- Built scalable ETL pipeline processing of 10M+ user records using PySpark and AWS Glue from raw to transformed state.
- Streamlined data validation process in ETL pipeline, thereby reducing the data load failures by 40%.
- Partnered cross-functionally with MLOps team and designed data architecture to integrate Health Analytics Report in the Rocket Money app.

#### KPMG

**Pune, India**

Data Engineer (GCP Centre of Excellence)

**May 2021 - Jul 2022**

- Led development and scheduling of automated data pipelines using SQL and Airflow, optimizing workflows, and eliminating manual processes - saved 3 hours daily.
- Collaborated with process mining team, executed data engineering project on Google cloud, thereby saving 15 days.
- Improved the efficiency of the delivery process of 10 financial reports by 90% using SQL Server Integration Services.
- Developed Python scripts for data validation process, thereby improving the efficiency of the output by 50%.
- Created and implemented data governance guidelines, standardizing data handling procedures for cross-functional teams.

#### Vodafone

**Pune, India**

Business Intelligence Developer (Enterprise Analytics and Insights)

**Aug 2018 - May 2021**

- Generated revenue of more than 1M £ by delivering Cross-sell, Up-sell, & Retention campaigns with Marketing team.
- Saved 500k £ for UK Business by designing SOHO churn analysis, and Revenue drop analysis for the marketing team.
- Identified and implemented automation using python for daily customer usage reports, improving efficiency by 95%.
- Automated 50+ campaign deliveries using python, thereby saving 5 days on each campaign delivery.

### PROJECTS

**YouTube Data Engineering and Analysis using AWS** | Skills: AWS Glue, AWS S3, AWS Athena, PySpark.

- Designed an end to end ETL Data pipeline in AWS for YouTube Data analysis and visualizing in AWS QuickSight [\[Link\]](#).

**Parkinson's disease detection** | Skills: Python, Machine learning, Data Extraction, Data transformation.

- Achieved 82% accuracy by building SVM model in Python to detect the presence of Parkinson's disease in an individual on UCI ML Parkinson data set. [\[Link\]](#)

**Home Credit Default Risk Analysis** | Skills: Python, Machine learning pipeline, ETL, Data Visualization.

- Improved the accuracy from 85% to 92% using ensemble methods in an end-to-end machine learning pipeline to detect whether the customer will default on the home loan. [\[Link\]](#)

### SKILLS

**Business Intelligence and Visualization Tools:** SQL, MS Excel, Tableau, Power BI, Data Modeling, Teradata, NoSQL

**Data Processing & ETL Frameworks:** Python, Spark, GitHub, CircleCI (CI/CD), Apache Airflow, Hadoop, Hive, Snowflake, Kafka

**Cloud Infrastructures:** AWS (S3, Athena, Glue, EMR, Redshift), GCP (BigQuery, Cloud Storage, Dataflow), Azure, Databricks

**Certifications:** Google Cloud Professional Data Engineer, Google Cloud Professional Machine Learning Engineer, Microsoft Azure Data Scientist Associate, Apache Airflow fundamentals and DAG authoring

### EDUCATION

**Indiana University Bloomington, Indiana, United States**

**Aug 2022 - May 2024**

Master of Science in Data Science (GPA 3.52/4.0)

[Statistics, Applied Algorithms, Data structures, Applied Machine Learning, RDBMS, Data and Analysis, Product Management]

**University of Pune, Maharashtra, India**

**Jun 2013 - May 2017**

Bachelor of Engineering in Mechanical Engineering (First class with Distinction 3.3/4.0)