

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%.

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**)