

AKASH GANGADHARAN

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PROFESSIONAL EXPERIENCE

Data Research Assistant, Indiana University School of Medicine

Bloomington, US

Skills: SQL, Python, Power BI, Data Extraction, STATA

January 2024 - May 2024

- Acquired and integrated sociodemographic, environmental, and health data from diverse sources using advanced techniques like web scraping and spatial data enrichment.
- Performed complex analytics including descriptive statistics, trend analysis, and data visualization utilizing Python, SQL, Excel, Power BI, and STATA.
- Built dashboards, and presentations to summarize key findings for stakeholders and leadership.

Microsoft Ambassador, University Information Technology Services

Bloomington, US

Skills: Power BI, Microsoft forms, MSSQL Server

October 2023 - December 2023

- Led 50+ workshops on Microsoft Office 365 among students and promoting the adoption of Microsoft Office 365.
- Utilized Microsoft forms and Power BI to analyze event participation, driving data-informed decisions resulting in a 2X increase in student adoption of Microsoft technologies.

Data Engineer Intern, Rocket Companies

Detroit, US

Skills: AWS Glue, PySpark, Python, CI/CD, GitHub, AWS S3, AWS Athena, ETL

May 2023 - August 2023

- Built scalable ETL pipeline for Change Data Capture (CDC) by processing 10 million user records using PySpark & 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.

Data Engineer, KPMG

Pune, IN

Skills: GCP BigQuery, Apache Airflow, SQL, Python, CI/CD, GitHub, SSIS, SSMS, ETL

May 2021 - July 2022

- Led the migration of Oracle SQL scripts to BigQuery, efficiently orchestrating data loading and achieving project completion 15 days ahead of schedule.
- Transformed 15+ financial reports by automating end-to-end data pipelines in SSIS, cutting delivery time from 2 days to 5 minutes, enabling Excel exports, and automating stakeholder notifications.
- Streamlined data validation on GCP cloud storage by developing a Python script for row count analysis, reducing processing time from 1 hour to 5 minutes thereby improving the efficiency of data validation tasks by 70%.

Business Intelligence Developer, Vodafone

Pune, IN

Skills: SQL, Teradata, Python, Excel, VBA, Qlik sense, Data extraction

August 2018 - May 2021

- Generated revenue of more than 1M £ by delivering Cross-sell, Up-sell, & Retention campaigns with Marketing team.
- Automated weekly SQL updates with Python after a critical database error, enhancing accuracy and efficiency by 50%.
- Streamlined data processing by automating SQL and Salesforce integration, cutting task time from 5 days to 30 minutes and boosting campaign efficiency.

SKILLS

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

Programming languages & ETL Frameworks: Python, Apache Spark, GitHub, CI/CD, Apache Airflow.

Cloud Infrastructures: AWS (S3, Athena, Glue, EMR, Redshift), GCP (BigQuery, Cloud Storage, Composer, Compute Engine)

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

EDUCATION

Indiana University Bloomington

Bloomington, US

Master of Science in Data Science; GPA 3.62/4.0

August 2022 - May 2024

University of Pune

Pune, IN

Bachelor of Engineering in Mechanical Engineering; GPA 3.3/4.0

June 2013 - May 2017

PERSONAL 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.

Uber Data analysis pipeline using GCP | Skills: Python, Data Extraction, Data transformation, GCP, Mage AI, Looker.

- Built an end to end ETL Data pipeline using GCP and Mage AI for Uber Dataset and visualizing in Looker Studio.

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.