AKASH GANGADHARAN

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SUMMARY

- Experienced data engineering and data science professional with 4 years of work experience in designing and implementing data models and data pipelines on on-prem and cloud platforms.
- Proficient in SQL, Python, data modeling, ETL data pipelines, and conducting ad hoc data analysis to derive insights.

PROFESSIONAL EXPERIENCE

Data Research Assistant | Indiana University School of Medicine | US   **January 2024 - May 2024**
Skills: SQL, Python, Power BI, Data Extraction, STATA, ETL.
- Integrated over 1 million records of CDC/govt health data from disparate sources into a unified dataset using scraping and spatial techniques to enable advanced analytics and visualization.
- Performed data analysis with Python, SQL, STATA, and Power BI to create visualizations and dashboards, increasing people participation by 20% for coalition groups.
- Engaged with leadership and stakeholders to summarize key findings through dashboards and presentations, facilitating data-driven decision-making.

Data Engineer Intern | Rocket Central | US   **May 2023 - August 2023**
Skills: AWS Glue, PySpark, Python, CI/CD, GitHub, AWS S3, AWS Athena, ETL pipeline.
- Engineered PySpark ETL pipeline leveraging AWS to process 10 million records for Change Data Capture (CDC), reducing processing time by 15% and improving reliability.
- Implemented streamlined data validation protocols that reduced data load failures by 20% in the ETL pipeline, ensuring higher data quality and improving overall operational efficiency.

Data Engineer | KPMG | IN   **May 2021 - July 2022**
Skills: GCP BigQuery, Apache Airflow, SQL, Python, CI/CD, GitHub, SSIS, SSMS, ETL pipeline.
- Led the migration of Oracle data to BigQuery, 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 hours to 10 minutes, enabling Excel exports, and automating stakeholder notifications.

Data Engineer | Vodafone | IN   **August 2018 - May 2021**
Skills: SQL, Teradata, Python, Excel, VBA, Qlik sense, Data extraction, ETL pipeline, machine learning, Salesforce.
- Led the implementation of a python data pipeline integrating machine learning data with Salesforce, boosting campaign revenue by £1M+ and reducing task time from 5 days to 30 minutes.
- Developed a predictive model to identify employees at risk of attrition, reducing the attrition rate from 15% to 10%.
- Automated weekly SQL updates with Python scripts to optimize database performance, improving efficiency by 50%.
- Created a Python-based ETL pipeline and macro-enabled Excel dashboard for Vodafone UK, enabling 35+ stakeholders to monitor market share and revenue, leading to 20% increase in targeted customer campaigns.

SKILLS

Business Intelligence and Visualization Tools: SQL, MS Excel, Tableau, Power BI, Data Modeling, Teradata.
Programming & ETL Tools: Python, PySpark, GitHub, CircleCI (CI/CD), Airflow, Snowflake, Hadoop, Databricks, DBT.
Cloud Platform: AWS (S3, Athena, Glue, EMR, Redshift), GCP (BigQuery, Cloud Storage, Composer, Compute Engine).

LEADERSHIP EXPERIENCE

Microsoft Ambassador | *University Information Technology Services*
- Led 50+ workshops on Microsoft Office 365 among students and promoted the adoption of Microsoft Office 365.

Executive Board Member | *Indiana University Bloomington Data Science Club*
- Curated DSC LinkedIn page and organized hackathons, guest lectures, seminars and hired new members.

PERSONAL PROJECTS

Predicting Bank Telemarketing Success | *Skills: Python, EDA, Data Modeling, Predictive Analytics.*
- Developed a predictive model to forecast the success of bank telemarketing campaigns, achieving high recall of 70%.

Home Credit Default Risk Analysis | *Skills: Python, Machine learning pipeline, ETL, Data Visualization, SVM.*
- Improved the accuracy from 85% to 92% using Support Vector Machines model in an end-to-end machine learning pipeline to detect whether the customer will default on the home loan.

ACHIEVEMENTS

- Secured **Third place** in Grant Thornton Idea case competition and **awarded $2000.**

EDUCATION

Indiana University Bloomington | US   **August 2022 - May 2024**
- Master of Science in Data Science