TANMAY GUPTA

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EXPERIENCE (4 YEARS)

Data Engineer
ACCENTURE

Dec 2021 – June 2024

Gurugram, Haryana

- Developed a real-time data processing pipeline for IVR call flow data on Amazon Kinesis Data Streams, utilised Glue with PySpark transformations based on Mean Opinion Score (MOS). This solution reduced over 10,000 quality-related incidents per month.
- Designed and implemented a high-performance batch processing audio encoding pipeline using AWS
 Lambda and Lambda Layers, triggered by S3 events. Integrated the FFmpeg library and applied the mu-law
 algorithm, reducing processing time by 1.2 seconds per prompt, significantly improving call handling
 throughput.
- Conducted comprehensive analysis of historical call data stored in Amazon Redshift to evaluate IVR automated testing tools, such as Bespoken and Cyara from AWS Marketplace. Delivered insights through Power BI, aiding clients in decision-making with detailed reporting.
- Worked on refining existing ETL pipelines by reorganizing database schema and implementing SQL and PySpark best practices, including caching, partitioning, and broadcast joins, resulting in enhanced efficiency and accelerated data transformation processes.
- Managed AWS infrastructure deployments using Azure DevOps and CloudFormation, enhancing resource
 provisioning efficiency and streamlining CI/CD pipelines for smoother deployment processes.

Technology Associate

Oct 2020 – Dec 2021

AVIZVA

Gurugram, Haryana

- Led **in-house product development**, spearheaded the creation of **NLP-based conversational Al products**, demonstrating strong skills in functional programming and advanced problem-solving.
- Integrated RASA engine server, implemented as an independent component within a **Django** application, establishing it as the **NLP core to enhance conversational capabilities**.
- Developed and deployed an **automated Scala Play Framework project setup system**, improving setup efficiency by several hours per project and **reducing setup-related errors** through advanced automation and functional programming techniques.

SKILLS

- ETL & DATA ORCHESTRATION: Python, Lambda, Glue, Step Functions, PySpark, Pandas, Airflow, Kafka
- DATA WAREHOUSING: Redshift (Star and Snowflake Schema)
- CLOUD & DATABASES: AWS (S3, DynamoDB), SQL, MySQL, PostgreSQL, MongoDB
- CI/CD & VERSION CONTROL: Git, Azure DevOps, Github, Gitlab, CodeCommit, CloudFormation
- DATA VISUALIZATION: Power BI, QuickSight, Tableau

PROFESSIONAL CERTIFICATION

Amazon Web Services Training and Certification

AWS

AWS Certified Cloud Practitioner (CLF-C01)

Dec 2022 - Dec 2025

EDUCATION

Jamia Millia Islamia University

New Delhi

Bachelor of Technology, Computer Engineering (1st Division)

2016 - 2020

Represented the University in the prestigious ICPC Asia Region Contest, 2018