

## PRANITH GANDHE

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### CAREER PROFILE

**3+ years** of experience as a **Data Engineer** proficient in **Big Data** migration and **AWS** cloud solutions. Skilled in **Python**, **SQL**, and **AWS** services with a proven ability to optimize workflows and system performance. Committed to driving efficiency and delivering impactful solutions in data management for business success.

### TECHNICAL SKILLS

**Programming** – Python, Scala, SQL, SQL Scripting, Shell Scripting, R

**Big Data Technologies** – Apache Hadoop, Apache Spark, Hive, Pig, Apache Kafka, AWS EMR, Hadoop distributed file system (HDFS), Amazon Kinesis

**Database Management** – MySQL, PostgreSQL, Amazon DynamoDB, Amazon RDS

**Cloud Technologies** – AWS EC2, Amazon S3, AWS Lambda, AWS Glue, AWS Data Lake, Amazon Redshift, Amazon Athena

**Data Visualization** – Tableau, PowerBI, Excel

**Other Skills** – GIT, ETL, Data modeling and warehousing, Data cleaning and preprocessing, Data Interpretation, Building Data Pipelines, Snowflake, Apache Airflow

### PROFESSIONAL EXPERIENCE

*Software Engineer, Technology – Virtusa Consulting Services Private LTD, Client : GoDaddy | September 2020 – January 2023*

- Redesigned architecture framework for Big Data to AWS migration, reducing the team efforts and reducing overall workload by 30%.
- Coordinated the development and deployment of AWS-based big data solutions, overseeing a 100TB Hadoop cluster and a Hive data warehouse with 100 million rows of data.
- Introduced conversion of on-prem Oozie DAGs to Managed Apache Airflow DAGs, streamlining the workflow efficiency by 25%.
- Engineered a migration factory setup in AWS cloud environment, resulting in a 20% decrease in deployment time.
- Played a key role in the successful migration of Big Data architecture to AWS, leveraging Hadoop, Spark, Hive, and EMR technologies to optimize data processing and analysis capabilities.
- Developed automation scripts for file segregation and upload process, saving up to 10 hours weekly.
- Identified and resolved application performance issues, leading to a 15% improvement in system performance and EMR cluster optimization.
- Maintained up-to-date documentation and provided training to end-users on new systems and processes, ensuring smooth transition and adoption of new technologies.
- EMR, S3, EC2, Lambda, Glue, Athena, Lake formation, Kinesis, Redshift, Hadoop, Spark, Hive, HDFS, Airflow, RDS, GIT, ETL.

### INTERNSHIP EXPERIENCE

*Engineer – L&T Technology Services (LTTS) LTD | October 2019 – March 2020*

- Developed a project addressing communication challenges for non-verbal individuals in the era of autonomous vehicles, enabling interaction through facial movements.
- Employed DLIB library for face and facial landmark detection, integrating Python's flexibility for an interactive experience.
- Utilized OpenCV and machine learning techniques to analyze lip movement, allowing users to communicate effectively by carrying the device in their daily activities.

### PROJECTS

*Data Fabric Modernization – Virtusa Consulting Services Private LTD*

- Data is captured from multiple sources with ingestion into a Kinesis Data Stream.
- The ETL process is executed through Kinesis Data Firehose for seamless data transformation.
- Used lambda for transformation and sending the data to various storage services which reduced 40% deployment time.

*Border Crossing Analysis and Visualization – **University of North Texas***

- Implemented a data pipeline with AWS services such as S3, Athena, EMR for efficient data storage and analysis.
- Redesigned the schema for enhancements for in-depth analysis. Utilized Hadoop MapReduce on EMR for extensive analysis to find out the number of passengers in each vehicle type which decreased 50% human effort.
- Utilized Power BI to connect to S3 to develop insightful measures which resulted in 30% improvement of data analysis and understanding.

**EDUCATION**

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*University of North Texas | Denton, Texas*

**Masters in Advanced Data Analytics (ADTA)**

**Relevant Course Work :** Data Engineering | Cloud Engineering | Data Analysis

**Expected May 2024**

GPA : 4

*JNTU Hyderabad | Hyderabad, India*

**Bachelors in Information Technology (IT)**

**Relevant Course Work :** Software Engineering

**September 2020**

GPA : 3.6