PARTH SINGH RANA

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EDUCATION

Bachelor of Science | Kumaon University **2018-2021**

Master of Computer of Application | G.B.P.U.A&T University **2022-2025**

SKILLS

- **Programming Languages:** Python, C/C++, SQL
- **Data Engineering Tools:** Apache Airflow, Apache Spark, AWS glue, Google Dataproc
- **Cloud Platforms:** AWS, Google Cloud Platform
- **Technologies:** MySQL, SQLite, Git/Github, Linux
- **Platform:** Pycharm, Jupyter Notebook
- **Databases:** MySQL, PostgreSQL
- **Data Visualization:** Tableau, Power BI, Streamlit
- **Soft Skill:** Adaptability, Problem Solving, Quick Learner

PROJECTS

Data Pipeline for Real-Time Stock Market Analysis

- **Description**: Created a serverless architecture for collecting, processing, and analyzing live stock data, emphasizing real-time data engineering practices.
- Designed and implemented a data pipeline using **AWS Lambda** to fetch stock market data from the **Alpha Vantage API** in real time and store it in **Amazon S3**.
- Automated data processing with **AWS Glue** and queried data insights using **Amazon Athena** for reporting.
- Built a dashboard in **Tableau Public** connected via **AWS API Gateway** to visualize trends and analytics.

E-Commerce Data Warehouse with Customer Insights

- Consolidated sales, customer, and product data from multiple **MySQL** databases into a **PostgreSQL** data warehouse using **Apache Airflow** for ETL orchestration.
- Deployed machine learning models in **Python (scikit-learn)** to predict customer churn and classified insights stored in the warehouse.
- Visualized insights in **Power BI** to deliver actionable intelligence on sales patterns and customer behavior.

Twitter Sentiment Analysis with Scalable Big Data Processing

- **Description**: Designed a scalable big-data solution for sentiment analysis, leveraging cloud services and distributed computing frameworks.
- Built a pipeline using **Twitter API** to ingest tweets into **Google Cloud Storage**, with preprocessing and sentiment analysis performed using **Apache Spark** on **Google Dataproc**.
- Stored processed data in **BigQuery** for further analysis, querying, and reporting on trending topics.
- Developed a **Streamlit** app to provide real-time sentiment visualization and reporting on user-defined hashtags.