



Venkata Sai Rishitha Seelam

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DATA ENIGINEER

Results-driven Data Engineer with **2.5+ years of experience** in building scalable ETL/ELT pipelines, Interactive dashboards, managing cloud data ecosystems, and delivering analytical solutions. Proven expertise in leveraging AWS and Azure cloud services to optimize data pipelines and enable data-driven decision-making. Skilled in **Python, SQL, Power BI, AWS and Azure Cloud services, Informatica, Snowflake, Pyspark** with a track record of delivering actionable insights, reducing process times, and improving data governance. Passionate about building robust, fault-tolerant systems to drive organizational success.

PROFESSIONAL EXPERIENCE

AWS Cloud Data Engineer	Jul 2022 – Jan 2023
Cognizant Technology Solutions (Healthcare industry)	Chennai, India
<ul style="list-style-type: none">* Designed and implemented Data solution to manage customer rebates based on their purchase patterns.* Optimized scalable ETL pipelines to process 5M+ records using AWS services, ensuring data integrity and consistency* Streamlined data availability using AWS Lambda and Glue, transforming data from four diverse sources into a centralized AWS S3 repository, achieving a 25% reduction in data retrieval time.* Implemented Snowflake-based data warehousing solutions managing over 3TB of data, improving query performance by 40%.* Improved data governance policies and metadata management, enhancing compliance with industry standards.* Enabled 30% faster decision-making by delivering actionable insights using AWS Athena for advanced data analysis.	
Data Engineer and Data Analyst	Mar 2021 – Jun 2022
Cognizant Technology Solutions (Healthcare industry)	Chennai, India
<ul style="list-style-type: none">* Worked on an end-to-end data project to analyze competitor performance relative to our client, delivering actionable insights and developing a dashboard to identify opportunities for revenue growth.* Migrated legacy Python ETL workflows to PySpark and Databricks, reducing ETL runtime by 70% (from 20 hours to 1 hour) for 120GB datasets.* Developed and optimized data pipelines using SQL, Snowflake, and Informatica, ensuring seamless data integration.* Built 20+ real-time dashboards in Power BI, increasing reporting efficiency by 40% and enhancing data visualization.* Automated data extraction from APIs and databases, by using python scripts reducing manual efforts by 60%.* Designed scalable data warehouse models in snowflake for storing and analyzing 2TB+ of data, enabling efficient storage and retrieval.* Automated reporting workflows, achieving an 80% reduction in manual effort with Python scripts and Power BI.* Engaged in database and data warehouse modeling and design, creating efficient data relationships and schemas to support robust data storage, retrieval, and analysis using platforms such as SQL.	

TECHNICAL SKILLS

* Programming Languages	: Python, SQL, PySpark, R
* Cloud Platforms	: AWS (S3, Glue, Lambda, Kinesis, RDS, Redshift), Azure Cloud services
* Big Data Technologies	: DataBricks, Apache Spark, Spark SQL, Kafka, Hadoop (HDFS, MapReduce)
* Data Warehousing & ETL	: Snowflake, Datalake, Informatica PowerCenter, Informatica MDM
* Data Analysis & Visualization	: Power BI, Tableau, Excel, Pandas, NumPy
* Data Engineering	: ETL Processes, data mining, data cleansing, validation, transformation
* Others	: Power Automate, Agile/Scrum, Machine Learning & Forecasting

EDUCATION

Master's in Data Science GPA: 3.9	Dec 2022 – Dec 2024
University of Maryland, Baltimore County	Baltimore, Maryland
Relevant Coursework: Data Science, Big Data, Data Visualization, Machine Learning, AI Fundamentals and Virtual Reality	

ACADEMIC PROJECTS

US HOUSEHOLD ENERGY PREDICTION Oct' 2024 – Dec' 2024

- * Developed a predictive model for U.S. household energy consumption using regression techniques with seasonal adjustments.
- * Optimized and deployed the model for scalability and real-world application.
- * Designed an interactive web application using HTML, CSS and JavaScript for users to visualize energy consumption predictions

GENE SEQUENCE CLASSIFICATION Aug' 2023 – Dec' 2023

- * Contributed to the advancement of Splice Junction gene sequence classification through machine learning techniques.
- * Preprocessed gene sequence data to prepare it for machine learning algorithms.
- * Utilized Python, NumPy, Pandas, and Scikit-Learn for data preprocessing and model development.
- * Applied various machine learning algorithms to classify gene sequences.
- * Evaluated model performance using metrics such as accuracy, precision, recall, F1-score, and AUC-ROC.

FACIAL EMOTION RECOGNITION Jan' 2023 – May' 2023

- * Developed a highly accurate machine learning model for detecting and classifying human emotions.
- * Utilized advanced machine learning algorithms & Computer Vision to train the model on a diverse dataset of facial expression.
- * Achieved high precision and recall in accurately identifying and classifying various human emotions.
- * Implemented feature engineering techniques to extract meaningful facial features for emotion recognition.

CERTIFICATIONS

- * AWS Certified Data Engineer - Associate (**Amazon Inc**)
- * Microsoft Power BI Desktop (Maven Analytics | Udemy)
- * Data Analytics Certification (Microsoft | LinkedIn Learnings)

ACHIEVEMENTS

- * Achieved a 70% reduction in ETL processing time by optimizing Python workflows into PySpark solutions.
- * Contributed to \$0.5M in business value through innovative data engineering solutions.
- * Improved decision-making speed by 30% with enhanced analytics pipelines.