Sai Mani Teja Reddy Alla

📞716-533-8659 ✉saimanit@buffalo.edu 🔗contact mani ⭘ saimanit Ⓗ saimanit

Education

State University of New York at Buffalo	**Jan. 2023 – Aug 2024**
Master of Professional Studies in Data Science and Applications - GPA 3.45	*Buffalo, NY*
SRM University	**July. 2016 – May 2020**
Bachelor's Degree	*TamilNadu, India*

Experience

DataSenseIT LLC — **Sep 2024 – NOW**
Software Engineer — *Portland, Oregon*

- Partnered effectively with product managers and cross-functional teams to convert business needs into robust technical solutions. My collaborative efforts were instrumental in delivering high-quality software on schedule and budget, resulting in significant improvements in system performance and user satisfaction.
- Migrated the database layer from Derby to PostgreSQL to enhance performance, consistency, and durability, and developed a service layer that facilitates decoupling across UI, service, and business logic layers, enabling flexible database store integration.

Centrepoint Soft Tech — **Mar 2020 – Dec 2022**
Data Engineer — *Bengaluru, Karnataka*

- Implemented robust AWS data security protocols and optimized data storage using Parquet, AVRO, and Fixed Width formats, enhancing the security and efficiency of large-scale retail datasets.
- Optimized Amazon Redshift Data Warehouse, reducing query response time by 30% and improving system performance by 25%, and managed data ingestion and workflow orchestration using AWS Step Functions and Apache Airflow.
- Achieved a 15% reduction in ETL process runtime for retail data through meticulous debugging and enhancements,leveraging Amazon CloudWatch to monitor performance and optimize operations.
- Designed and maintained robust data models for structured and semi-structured retail datasets, utilizing AWS S3 for scalable storage, which facilitated faster data analytics and insights into consumer behavior.
- Developed 60+ ETL pipelines on AWS Platform using Glue, processing 50 TB of raw batch data into actionable insights, and automated 90% of manual tasks, saving over 100 hours from development to production.

Sln Technologies — **May 2019 – Jul 2019**
Data Engineer Intern — *Chennai, Tamil Nadu*

- Worked on AWS services like EC2, S3, RDS, Lambda, and DynamoDB, designing scalable ETL pipelines using AWS Glue and S3.
- Executed AWS-based projects, including data migration to AWS RDS, serverless architecture for real-time data processing, and S3-based data lake setup with Athena and Glue.

Projects

Fake News Detection — **University at Buffalo**
Technologies Used: *Python, TensorFlow, Keras, NLTK, Matplotlib, Seaborn, Pandas, NumPy, Scikit-learn.*

- Designed and implemented a fake news detection system using advanced neural network architectures like RNN, LSTM, and Bidirectional LSTM, optimizing text classification.
- Applied preprocessing techniques such as stemming, stopword removal, and one-hot encoding, and developed models with embedding, dropout, and dense layers for high accuracy.

Technical Skills

Programming Languages: Python, PySpark,R,Java
Machine Learning & Deep Learning: Supervised Learning, Unsupervised Learning, Neural Networks
Database: PostgreSQL, SQL, MySQL, MongoDB
Cloud Services: AWS, Azure, GCP
AWS Services: EMR, S3, RedShift, EC2, IAM, CloudWatch, Glue, Snowflake, DevOps (CI/CD pipelines), RDS, Lambda, DynamoDB, Amazon Sage Maker
Big Data and Healthcare: Apache Hadoop,spark, Kafka, Hive, Airflow, HL7, FHIR
Reporting and Visualization: Tableau, Microsoft Power BI, QlikView, , SSRS, Cognos, Excel

Certification

- **AWS**: AWS certified Data Engineer
- **DATABRICKS**: Databricks Fundamentals
- **HackerRank** : SQL SILVER Badge
- **HackerRank** : SQL Intermediate