

# Sai Manish Rao Sirikonda

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*Results-driven and highly skilled Data Engineer with over 3+ years of experience in designing, building, and maintaining scalable data solutions within **Azure** and **AWS** environments. Demonstrated expertise in managing large-scale data migrations and transformations, ensuring efficiency and reliability through tools like **AWS Glue**, **Azure Data Factory**, and **Apache Spark**. Possesses a strong foundation in data warehousing solutions. Experienced in workflow orchestration using **Apache Airflow** to enhance automation and schedule complex data pipelines. Proficient in technologies such as **Python**, **SQL**, **Scala**, **R**, and machine learning frameworks. Dedicated to delivering high-quality results and driving continuous improvement in data management and analytics.*

## SUMMARY

- Proficient Data Engineer with 3+ years of experience in **Azure** and **AWS** environments.
- Skilled in managing large-scale data migrations and transformations using **AWS Glue**, **Azure Data Factory**, and **Apache Spark**.
- Experienced in workflow orchestration with **Apache Airflow**, enhancing automation and scheduling.
- Skilled in deploying and optimizing data services and tools such as **Redshift**, **S3**, **RDS**, **Athena**, **Azure SQL Database**, and **Azure Data Lake Storage**.
- Proficient in **Python**, **SQL**, **Scala**, **Kafka**, and machine learning frameworks.
- Experienced with relational and **NoSQL** databases, including **SQL Server**, **MySQL**, **MongoDB**, and **HBase**.
- Skilled in generating insightful visualizations using **Tableau**, **Power BI**, **Python**, and **R**.
- Familiar with project management and version control tools like **Jira** and **Git**.
- Developed **Python** and **YAML** scripts for data cleansing and transformation.
- Implemented database stored procedures, functions, triggers, and views.
- Knowledgeable in basic **Unix** commands for file manipulation and scripting.

## CERTIFICATIONS

- **Microsoft Certified: Azure Data Engineer Associate** (DP-203)

## EDUCATION

### Masters in Data Science

GPA 3.9

- Worked as a Graduate Assistant, supporting courses in Introduction to Data Science and Data Management

## SKILLS

**Big Data Technologies:** Apache Hive, Apache Spark, MapReduce, Hadoop, Kafka, Airflow

**Cloud Platforms:** Azure, AWS

**Data Warehousing:** Amazon Redshift, Azure SQL Database, Azure Data Lake Storage, Hive

**Programming Languages:** Python, SQL, Scala, Java

**Data Visualization:** Tableau, Power BI, Matplotlib, Seaborn, R

**Database Management:** SQL Server, MySQL, PostgreSQL, MongoDB, HBase

**Workflow Orchestration:** Apache Airflow, YAML, dbt

**Version Control:** Git, GitHub, Jenkins

**Methodologies:** Agile, Waterfall, JIRA

**DevOps & Automation:** Docker, Jenkins, Azure DevOps, Kubernetes

**Operating Systems:** Windows, Linux, Unix

**Machine Learning:** NumPy, Pandas, Linear regression, Logistic regression, KNN, Naïve Bayes

## PROFESSIONAL EXPERIENCE

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### Data Engineer

#### Hartford Financial Services Group

*Aug 2023 - Present*

- Migrated data processing workflows to **Azure**, increasing efficiency by 40%.
- Designed and implemented data pipelines using **Azure Data Factory** and **dbt**, enabling real-time analysis and reporting.
- Ensured data solutions complied with **GDPR** and other data protection standards.
- Validated data using **MapReduce** programs before loading into **Hive** tables.
- Optimized data storage and retrieval in **Azure Data Lake Storage**, reducing costs and access times.
- Conducted testing and performance tuning of **SQL** databases, improving stability and response time.
- Created interactive reports and dashboards using **Power BI** for business insights.
- Developed **PySpark** and **Scala** notebooks in **Azure Databricks** for Spark transformations.
- Used **Azure Key Vault** to secure sensitive data, ensuring compliance with regulatory requirements.
- Followed **Agile** methodology and participated in daily **SCRUM** meetings.
- Containerized applications using **Docker** and **Kubernetes**, ensuring scalability and reliability.
- Support **Data Science** efforts in a fast-paced team environment to accelerate our efforts of building out our analytics driven product pipeline.
- Automated CI/CD pipelines using **Azure DevOps** for consistent code delivery.
- Experience in implementing and consuming **Machine Learning Algorithms**.
- Integrated machine learning models into data pipelines to predict customer behaviors and business outcomes

### Data Engineer

#### Coforge

*June 2019–December 2021*

- Provided technical expertise in **Hadoop** for analytics development and executed big data and predictive analytics projects.
- Collaborated with 20+ Data Analysts, Data Scientists and Project Managers on several concurrent projects.
- Utilized **Tableau** for business intelligence and visualization.
- Interfaced with large-scale databases through **ETL** servers, extracting and preparing data.
- Designed and developed business applications and data warehouse structures.
- Wrote complex **SQL** queries for data loading, retrieval, and performance optimization.
- Automated ETL processes and conducted audits before deployment.
- Collaborated with clients to gather requirements and prioritize deliverables.
- Developed **SSIS** packages for internal ETL tasks.
- Engineered **Azure**-based data pipelines, enhanced decision support systems, and optimized data migration and storage.
- Automated deployment and managed databases with **Azure** services, ensuring security and high performance.
- Advanced experience with **Excel** , including data analysis, **pivot tables**, **VLOOKUP**, complex formulas, **Power Query**, and **VBA** for data management and automation.
- Experience in predictive analytics procedures analyzed in supervised learning (**Classification, Regression, Decision Trees, Random Forest, SVM, Neural Networks**), unsupervised learning ( **K - Means Clustering & PCA**), and reinforcement learning.
- Experience with CI/CD pipelines, **Infrastructure as code (IaC)**, and familiarity with tools such as **Jenkins** and **Terraform**