

Sai Jayavardhana Reddy

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EXPERIENCE

Data Engineer

Jan 2024 – Present

Avolta

USA

- Conducted **Exploratory Data Analysis (EDA)** on sensor data, utilizing **machine learning techniques** to achieve **97% accuracy** in predicting ownership.
- Engineered enhanced **security protocols** using deep learning models by using images, achieving **96% accuracy** in identity through **computer vision**.
- Collaborated with cross-functional teams across diverse functional areas to facilitate the seamless integration of hardware and software components, playing a pivotal role in the successful implementation of integrated solutions.**
- Additionally, **provided strategic oversight and guidance**, contributing to the overall success and **efficiency of the project through effective management and leadership skills.**

Data Analyst/Engineer

Aug 2023 – Dec 2023

Credit Suisse

USA

- Streamlined data pipelines** through ELT operations using **Snowflake Streams and Tasks**, enhancing remote **data acquisition, transformation, and ingestion processes** for improved decision-making.
- Analyzed financial data** to identify trends and patterns, provided strategic recommendations, and enhanced customer understanding through clear and actionable insights in **collaboration with cross-functional teams.**
- Orchestrated the development of an efficient **data pipeline** leveraging **T-SQL scripts** and **Azure Databricks**, facilitating smooth data flow between **Azure and Snowflake environments.**

Data Analyst/Engineer

Nov 2020 – May 2022

Tata Consultancy Service

INDIA

- Proficiently utilized Python and SQL** to extract and harmonize data from diverse sources, ensuring a seamless data flow as a Data Analyst. Notably, **integrated customer interaction data from various resources**, leveraging **SSIS MS SQL Server** to build for **20+ ETL Pipelines** for efficient data transferring, management and storage.
- Created compelling visualizations using Python, and PowerBI playing a pivotal role in conveying intricate insights. This graphical representation contributed significantly to a remarkable **20% increase in stakeholder engagement.**
- Managed and queried **MS SQL Server** databases in a banking context using SQL, **implementing indexing strategies to optimize data retrieval.** Successfully **reduced query execution time by an impressive 25%.**
- Actively engaged with banking clients to comprehend their specific data requirements, delivering tailored insights that met their unique needs. Additionally, **utilized JIRA for task management in a collaborative work environment.**

Data Engineer

Jan 2019 – Oct 2020

Citus Infotech

INDIA

- Utilized **SQL, Python**, and **statistical modeling** to analyze **supply chain data** using advanced analytics and **data mining**, improving data-driven decision-making by **15%.**
- Enhanced **supply chain management** efficiency by **20%** through the application of **statistical techniques**, extracting actionable insights from vast datasets to streamline operations and decision processes.
- Built **30+ data pipelines** and maintained **Python scripts** and workflows for automating data extraction, transformation, and loading (ETL) processes in Azure, ensuring data integrity and consistency using **Azure Data Factory** and **Azure Data Lake Storage.**
- Leveraged Azure Data Factory and **Azure Data Flow** for data integration and transformation, ensuring high-quality and reliable **data pipelines.**
- Conducted root cause analysis to identify inefficiencies and implemented corrective measures for enhanced operational performance using **Azure Monitor** and **Azure Log Analytics.**
- Constructed dynamic and visually compelling dashboards in **Power BI**, effectively **displaying trends, seasonality, and key metrics segmented by business divisions.** This initiative led to a **15%** reduction in operating costs by restructuring business KPIs.

TECHNICAL SKILLS

Languages and Databases: Python, SQL, ELT, R, PySpark, PostgreSQL, MySQL, SSIS, Excel, Oracle, Spark, dbt, pivot tables, NoSQL
Tools: Git, GitHub, VS Code, Word, Tableau, Power BI, PowerPoint, Ms excel, R Studio, Big Data, VisualStudio, SSIS, SSRS, SharePoint

Methodologies: System Development Life Cycle (SDLC), Agile

Cloud: AWS - S3, EC2, Crawler, Glue, RedShift, Athena, Azure - Azure Data factory, Data Lake, Data Bricks

Data Science Skills / Tools and Techniques: EDA, Data Warehousing, Data Analysis, Data Cleaning, Data Visualization, Data Mining, Machine Learning, Predictive Modeling/ Predictive Analysis, Data Modeling, statistics, Big Data, Hadoop, Spark, Kafka, Scala.

EDUCATION

University At Buffalo,

BUFFLO, NY

Master of Science, Data Science - CGPA: 3.9/4

Aug. 2022 – Dec 2023

SASTRA deemed to be University

THANJAVUR, INDIA

Bachelor Of Technology in Electrical and Electronics Engineering - CGPA: 3.2/4

Jun. 2016 – May 2020

CERTIFICATION

- Snowflake Pro Certified - Link