

SAIRAM KORIMILLA

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EDUCATION

Master of Science, Data Analytics - December 2025

The Catholic University of America, Washington, DC

Overall GPA: 4.00/4.00

Master of Technology, Data and Computational Science – November 2023

IIT Jodhpur, India

Overall GPA: 3.30/4.00

PROFESSIONAL EXPERIENCE

Data Engineer - January 2021 - December 2023

Cognizant Technology Solutions, Telangana, India

- Collaborated with business analysts to refine data requirements from 10 source systems of an insurance company.
- Conducted a comprehensive analysis of data structures and existing systems, improving architectural planning efficiency by 20%.
- Designed a 3-step data ingestion pipeline using AWS S3, Databricks, PySpark, and SQL, tailored for policies and claims data with interconnected tables.
- Automated data ingestion for 600 tables, transferring data to AWS S3 using Databricks, PySpark, and SQL. Harmonized the process to manage Type 2 data changes with DHF, ensuring production-ready data quality.
- Managed release planning in JIRA, committed code to Git repositories, and documented release readiness, reducing deployment failures by 25% and improving issue resolution time by 40%.
- Led a team of 5 offshore members, ensuring seamless coordination between offshore and onshore teams.
- Automated 50% of testing efforts with data comparison scripts.
- Enhanced data collection speed by 30% through effective partitioning in PySpark reads, optimizing resource usage in the ingestion pipeline.

PROJECT EXPERIENCE

Optimal Drug Quantity Predictor

IIT Jodhpur, India

- Developed and maintained a continuous data collection system using AWS for gathering pharmacy network data. Initially collected 800,000 data points from the CDC site, stored in S3, and deployed models using SageMaker.
- Created a Python-based ARIMA time series model achieving 85% prediction accuracy, forecasting optimal drug quantities for profit maximization and waste reduction.

Budget Approval System

SIJET Telangana, India

- Developed interactive web pages with HTML, CSS, and JavaScript for budget submission and approval, improving user experience and operational efficiency.
- Implemented and maintained a MySQL-based budget management system with advanced normalization techniques, ensuring secure and efficient data storage. Achieved a 25% reduction in data redundancy and improved reporting accuracy. Implemented a role-based access control system to streamline budget approvals for small-scale industries.

SKILLS & CERTIFICATIONS

Languages: English, Hindi, Telugu

Technical Skills:

- Programming: Python, R, C, Java
- Databases: MySQL, SQL Server, Oracle, NoSQL, JSON

- Data Technologies: PySpark, Hadoop, Apache Spark, Databricks, Snowflake, Informatica, DBeaver, Veeva Vault, HP ALM, Spotfire
- Cloud Platforms: AWS, Azure
- Data Visualization: AWS QuickSight, Tableau
- Libraries: TensorFlow, NumPy, Pandas, Matplotlib, Scikit-learn, Seaborn, SciPy
- Machine Learning: Supervised and unsupervised learning, Deep learning
- Statistical Modeling: Regression modeling, Prediction, Forecasting, Time Series Analysis

Certifications: (<https://www.credly.com/users/sairam-korimilla>)

- AWS Certified Cloud Practitioner
- AZ-900 Microsoft Azure Fundamentals
- DP-900: Microsoft Azure Data Fundamentals
- DP-100: Microsoft Certified Azure Data Scientist Associate
- DP-203: Microsoft Certified Azure Data Engineer Associate
- AZ-204: Microsoft Certified Azure Developer Associate
- SC-900: Microsoft Certified: Security, Compliance, and Identity Fundamentals
- AI-900: Microsoft Certified: Azure AI Fundamentals
- TCA-TIBCO Spotfire
- TCA - TIBCO® Data Science

RECOGNITIONS

- Was recognized by the Client for completing the committed production releases efficiently in the stipulated time.
- Was recognized by Cognizant for successful volunteering activities

VOLUNTEERING EXPERIENCE

Outreach Associate - January 2021 - December 2023

Cognizant Technology Solutions, Telangana, India

- Collaborated with volunteering organizations and internal leadership to provide some quality technical sessions to underprivileged kids.
- Conducted regular workshops to raise awareness about global warming, food wastage, and fitness.
- Worked on data collection of underprivileged kids to provide scholarships through Cognizant.
- Participated in the “Haritha-Haram” program to plant trees.