

SAI KRISHNA SRIRAM

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EDUCATION

University of Colorado, Boulder

Boulder, Colorado, United States

Master of Science in Data Science; CGPA: 3.83/4.00

Aug 2023 – Present

- **Courses:** Data Mining, Datacenter Scale Computing, Machine Learning, Adv. Robotics, Neural Networks & Deep Learning

Gokaraju Rangaraju Institute of Engineering and Technology

Hyderabad, Telangana, India

B.Tech. in Electronics and Communications Engineering; CGPA: 9.25/10.00

Aug 2017 – Jul 2021

SKILLS

Languages : Python, R, SQL, Scala, C#, C, C++, Java, XML, HTML, Dataweave, Linux Command-line, Bash/Shell Scripting

Software/Tools : Databricks, Kibana, Grafana, Snowflake, Tableau, Power BI, QlikView, Git, Informatica ETL, Microsoft Excel

Cloud Services : AWS (EC2, S3, Lambda, Athena, Glue, RDS, MSK, SageMaker, QuickSight, Redshift, Kinesis, Rekognition, Personalize, Kendra, IoT), Azure (DevOps, Machine Learning Studio, Form Recognizer, Function App, Logic App & Data Factory), Google Cloud Platform (BigQuery, Cloud Functions)

Database Services : MySQL, MongoDB, PostgreSQL, AWS DynamoDB, Azure CosmosDB

Containerization & Microservices : Docker, Hadoop, Kubernetes, Anypoint Platform, MuleSoft, RESTful APIs, Datadog

Frameworks : Apache Spark, Kafka, Airflow, PySpark, Selenium, Tensorflow, Keras, PyTorch, PyCaret, ROS2, Boto3

WORK EXPERIENCE

University of Colorado, Boulder

Boulder, Colorado, United States

Graduate Teaching Assistant & Autograder Assistant - MS DS Online

Apr 2024 – Present

- Facilitating Data Mining, Data Structures & Algorithms, and Machine Learning courses by simplifying complex concepts, interactive coding, and problem-solving. Developing Python scripts for autograder and deploying them in Docker containers.

Graduate Research Assistant - Human Interaction and Robotics (HIRO) Group

Oct 2023 – Present

- Mastered robotic manipulation, computer vision, and motion planning using hybrid ML techniques, achieving human-like dexterity in tasks like stacking and grasping. Developed a Spatial Estimator with 99% accuracy, integrated with a robotic arm for effective block manipulation using SAM, CREStereo & Diffusion models.

Absolutelabs.

Hyderabad, Telangana, India

ETL Developer

Sep 2022 – July 2023

- Worked on formulating, developing, and maintaining Mule APIs. Developed ETL processes and real-time data pipelines using DataBricks, conducted data profiling, and led an Integration project for a client e2e, yielded a noteworthy 20% improvement in data accuracy and a significant 15% decrease in data processing errors, generated near real-time reports.

Qualcomm

Hyderabad, Telangana, India

Engineer 1 (Data Engineer)

Aug 2021 – Aug 2022

- Developed & deployed scalable E2E framework for ML-based test failure detection, classification & optimizing log analysis and improving platform scalability by 25%. Designed, implemented automated test data analysis template with report generation, & encapsulation processes, a scalable E2E framework for efficient test data storage & retrieval. Facilitated infrastructure for automated test data collection, log parsing, data mining, analysis for triage & software quality improvement. Employed statistical data-driven initiatives, contributed to WLAN testing automation software by handling change requests & designing new features testing on Android platforms to achieve a 25% reduction in automation test execution time & robust wireless communication solutions.

Career Launcher - Aspiration AI

Hyderabad, Telangana, India

Machine Learning Intern

Apr 2020 – Jun 2020

- Analyzed real-time data using a CSV Data Pipeline, performed EDA, and applied machine learning techniques including linear regression, classification, and clustering to categorize stocks with high return correlations.

RESEARCH EXPERIENCE

Performance Analysis of Optimization Algorithms GA, PSO and ABC based on DWT-SVD Watermarking | [IEEE Journal](#)

PROJECTS

- **E-Learning Communication Analysis System :** Developed a scalable AWS Lambda-based real-time audio analysis platform, reducing response times by 90%. Optimized data handling for large-scale e-learning environments. **Tech: Amazon Bedrock, Sagemaker, S3, Open-ai Whisper**
- **Customer Behavior Analysis:** Leveraged Python and SQL to analyze customer data and identify purchasing trends. Developed Tableau dashboards that improved targeted marketing conversion by 15%. **Tech: Predictive Analytics**
- **Sales Performance Dashboard:** Created a dynamic Power BI dashboard to monitor sales performance metrics across multiple regions, enhancing resource allocation efficiency by 20%. **Tech: Real-time Data Analysis, Business Intelligence**
- **Change Data Capture Pipeline :** Implemented an AWS RDS-based real-time Change Data Capture pipeline, cutting replication latency by 80%. Improved data consistency and optimized performance for large datasets. **Tech: Databricks, PySpark, AWS**
- **Bank Marketing Campaign Analysis :** Generated models to predict if client will subscribe to term deposit based on the analysis of marketing campaigns, the best performing model was XGBoost Classifier with 75% accuracy **Tech: EDA, ML**

CERTIFICATIONS

• AWS Data Engineer Associate | [Credly](#)

• MuleSoft Certified Developer | [Salesforce](#)