

# SIVA SANKAR REDDY PALA

📞 7745089929 ✉ spalashiva9929@gmail.com 🌐 siva-sankar-reddy-pala-97a25123a 📁 Portfolio

## Summary

Technically skilled and goal-oriented professional with 4+ years of industry experience as a **Systems Engineer** and a completed master's in data science from the University of Massachusetts Dartmouth (2023–2025). Specialized in scalable machine learning models, **full-stack development**, and **cloud-based analytics**. Proficient in **Oracle Database Administration**, real-time data processing, **Python development**, and **AWS**. Adept at streamlining workflows, automating processes, and building reliable data-driven solutions.

## Technical Skills

- **Languages:** Python, SQL, JavaScript, Shell Script
- **Frameworks & Libraries:** Django, Flask, React.js, Spring Boot
- **Databases & Web Technologies:** Oracle, MySQL, PostgreSQL, MongoDB, Cassandra, HTML, CSS, REST APIs
- **Cloud & DevOps:** AWS (EC2, S3, RDS, Lambda, Glue, Athena), GCP, Azure, Docker, Kubernetes, Jenkins, Git, GitHub
- **Big Data & Workflow Tools:** Apache Spark, Hadoop, Kafka, Apache Airflow, Ctrl-M
- **Monitoring & Support:** Grafana, Kibana, Prometheus, Splunk, OEM 13c, ServiceNow
- **Others:** Agile (Scrum), JIRA, Postman, SQL Developer, Tableau, Cognos, Excel (Advanced), Pandas, NumPy, Alteryx

## Professional Experience

### Infosys Ltd. | Senior Systems Engineer

September 2022 – August 2023

Project: Conagra Food Brands--Role: AWS Cloud Engineer

Hyderabad, India

- Migrated enterprise-scale datasets from legacy systems to cloud environments using **AWS Redshift** and **Snowflake**.
- Designed and maintained ETL pipelines with **AWS Glue**, handling cleaning and transformation of transactional and operational datasets.
- Automated data workflows using **Python** and **Bash**, reducing report generation time by **45%**.
- Built interactive dashboards using **Tableau** and **Cognos**, enabling better supply chain and financial decision-making.
- Collaborated with DevOps and security teams to implement scalable and secure **data governance** practices.

### Tata Consultancy Services (TCS) | Systems Engineer

August 2019 – August 2022

Project 1: Ericsson—Role: Oracle DBA

Hyderabad, India

- Maintained **24/7** high-availability **Oracle 12c/19c** databases on **Exadata** infrastructure.
- Executed end-to-end **migrations, upgrades**, and fresh system builds across dev, UAT, and production environments.
- Performed **SQL/PLSQL tuning** using AWR reports and Explain Plans, reducing query time by up to 50%.
- Automated health checks and backup monitoring using **Shell scripts**, improving operational reliability.
- Managed backup strategies via **RMAN**, documented DR (Disaster Recovery) processes for audit readiness.

Project 2: Refinitiv—Role: SAP HANA Administrator / Oracle DBA

- Provided backend support for **SAP-integrated Oracle databases** in financial and ERP systems.
- Tuned memory, buffer cache, and redo settings to optimize **SAP BW/ECC** performance.
- Applied **PSU patching**, configured **Oracle Data Guard**, and enhanced disaster recovery solutions.
- Implemented **RBAC** for secure access management and authored SOPs for operational consistency.
- Mentored L2 teams, reducing L1 escalations by **40%** through detailed process documentation.

### Airport Authority of India (AAI) | Intern (Electronics & Communication Engineering)

June 2018 – May 2019

- Trained under the CNS division, assisting with maintenance of VHF radios, radar, and navigation systems.
- Supported inspections and signal flow documentation for DME, DVOR, and other ATC equipment.
- Gained practical exposure to aviation communication systems and technical compliance procedures.

## Education

### University of Massachusetts, Dartmouth

August 2023 – May 2025

Master of Science in Data Science

GPA: 3.7/4.0

## Academic Projects

### Personalized Restaurant Recommendation System-Django, React.js, MySQL, Python, TensorFlow

- Developed a full-stack restaurant recommendation system using collaborative and content-based filtering techniques.
- Built an intuitive React frontend with cuisine and location-based filtering.
- Implemented Django REST APIs and MySQL backend for real-time restaurant querying.
- Integrated Hybrid ML models to improve recommendation accuracy and user engagement.

### Hospital Management System-Flask, MongoDB, HTML/CSS

- Designed and developed a web-based platform to manage patients, appointments, and medication records.
- Enabled telemedicine integration and real-time vitals tracking through IoT mock data.
- Implemented secure CRUD operations and efficient NoSQL data management with MongoDB.