

LAKSHMI SAI SATWIKAKADIYALA

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Education

KL University

Bachelors of Technology in Computer Science CGPA:9/10

July 2020 - April 2024

Vaddeswaram, Andhra Pradesh

Experience

Airbus Group India Private Limited

July 2024 - January 2025

Intern | Development Test and Integration Responsible

Bangalore, Karnataka

- Developed unit testing strategies in Java and Spring Boot, ensuring high-quality backend services with robust test coverage, improved reliability, and maintainability.
- Migrated from JUnit 4 to JUnit 5 in a Spring Boot-based microservices architecture, enabling parallel test execution and integrating JFrog Artifactory for efficient artifact management in large-scale distributed systems.
- Gained expertise in SonarQube for static code analysis, identifying vulnerabilities, enforcing best practices, and improving code maintainability in scalable systems.
- Optimized Continuous Integration and Continuous Delivery workflows, reducing build time by 60% and enhancing automated testing for early issue detection in cloud-based architectures.
- Transformed CI/CD pipelines into a declarative format using Groovy scripting, ensuring standardized workflows and maintaining detailed documentation of parallel test execution in a fault-tolerant system.
- Utilized GitHub for version-controlled database scripts, optimizing PostgreSQL and Oracle SQL queries to support schema-per-service architecture in a distributed microservices environment.
- Improved Jenkins pipeline reliability by refining database scripts and optimizing automation workflows for seamless cloud infrastructure integration and large-scale deployments.

Kognitiv Club

July 2022 - Dec 2023

Technical Chair

Vaddeswaram, Andhra Pradesh

- Worked on NLP and Machine Learning projects as part of a university club, building end-to-end pipelines using Scikit-learn and Python to extract insights from unstructured data and support real-world applications.
- Explored and applied NLP techniques such as text cleaning, tokenization, and classification models to improve information retrieval and content understanding.
- Designed and maintained scalable Big Data pipelines leveraging Spark, ensuring faster and more efficient processing of datasets while facilitating smooth integration into existing architectures.

Projects

Spam Email Detection | TensorFlow, NLTK, Python, Matplotlib, Seaborn, AWS | 🤖

January 2025

- Developed a Machine Learning (ML) model to detect spam emails with high accuracy using Python and TensorFlow.
- Analyzed and preprocessed a dataset of over 5000+ emails, extracting key features such as keyword frequency, sender behavior, and metadata patterns.
- Deployed the model on AWS using Lambda for serverless execution, ensuring scalability and efficiency.

Data Quality Monitoring | Python, Spark, Kafka, PostgreSQL, Grafana, Docker, Kubernetes, Git | 🤖 December 2024

- Developed a real-time ETL pipeline using Python, Kafka, and Spark to process and store stock data in PostgreSQL.
- Integrated Kafka for real-time data streaming and alerting, reducing anomaly detection latency by 40% and improving system responsiveness.
- Built Power BI and Grafana dashboards for proactive data quality monitoring and containerized the pipeline with Docker, deploying it on Kubernetes for scalability.

Technical Skills

Programming: Python, Java, Bash, Shell Scripting

AI/ML & GenAI: TensorFlow, PyTorch, Scikit-learn, Prompt Engineering, LLM, LangChain, RAG, Vector Stores

Data Engineering & Analytics: Pandas, NumPy, PySpark, SQL, Matplotlib, Seaborn, Tableau, Power BI

Cloud & Serverless: AWS (Lambda, EC2, S3), GCP, Serverless Architecture

DevOps Tools: Docker, Kubernetes, GitHub, Jenkins, Terraform, Linux

Specialized Knowledge: Data Structures & Algorithms, Operating Systems, Networking, Object-Oriented Programming

Achievements

Certifications: [AWS Certified Developer - Associate](#), [AWS Certified Cloud Practitioner](#), [TensorFlow Developer Certificate](#), [Red Hat Certified Enterprise Application Developer](#), [Java J2EE Certified](#), [Juniper Networking](#)

LeetCode handle: [SatwikaK](#)