

# LAKESH KUMAR SURYADEVARA

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## SUMMARY

Data Scientist & Full-Stack Engineer with 3+ years of experience designing and automating large-scale data pipelines, deploying ML and RL models, and building APIs and dashboards for cloud and enterprise systems. Skilled in Python, SQL, Java (Spring Boot), and Snowflake, with expertise in ETL, data integration, workflow automation, and analytics. Proven ability to improve data quality, operational efficiency, and decision-making through scalable, end-to-end solutions.

## EXPERIENCE

### Data Analyst

FITPAA | Hyderabad, India | Jun 2020 – Jul 2023

- Designed, developed, and maintained data integration pipelines connecting APIs, cloud platforms, and SQL databases using Python, Airflow, Java (Spring Boot), and Snowflake, enabling real-time analytics and ML model deployment for Fitpaa's AI-driven fitness platform.
- Built automated ETL/ELT workflows to process and transform 1 TB+ of daily data (JSON, CSV, IoT, and app telemetry), ensuring 99.9% data uptime and integrity across analytical and operational systems.
- Collaborated with cross-functional teams to implement predictive and prescriptive analytics, developing machine learning and reinforcement learning (RL) models for personalized fitness goal recommendations, retention prediction, and activity forecasting.
- Performed data analysis and statistical modeling using Python (Pandas, NumPy, Scikit-learn), SQL, and Power BI to uncover user behavior patterns, improve engagement metrics, and optimize recommendation algorithms.
- Developed and deployed RESTful APIs in Java (Spring Boot) to serve ML model inferences and analytical insights to internal dashboards and mobile applications, ensuring high scalability and low-latency access to AI-driven insights.
- Implemented feature engineering, model evaluation, and A/B testing pipelines, improving model accuracy and business decision-making through data-driven experimentation.
- Created interactive dashboards and data visualization tools using Power BI, Streamlit, and React, displaying KPIs, ML metrics, and data quality insights for executive and product teams.
- Conducted data validation, cleansing, and governance to maintain consistency across analytical databases and ML datasets, ensuring compliance with data integrity and privacy standards.
- Utilized MLflow, Git, and Airflow DAGs for model tracking, version control, and automation, streamlining data science workflows and reducing manual intervention by 30%.
- Partnered with business analysts and product managers to translate complex datasets into actionable insights, creating ad-hoc analytical reports, forecasting dashboards, and KPI trackers that supported strategic planning and product enhancements.

### Graduate Assistant – Data Mining

Department of Data Science, University of Memphis | Jan 2024 – May 2024

- Supported development of ETL scripts and data preparation workflows for research projects.
- Provided technical guidance on Python data processing, Power Query transformations, and SQL-based validation.
- Assisted in documentation of research data pipelines and analysis workflows for reproducibility.

## SKILLS

**Programming & Languages:** Python, Java (Spring Boot, REST APIs), SQL, R, Bash, JavaScript (React), HTML/CSS

**Data Science & Machine Learning:** Scikit-learn, TensorFlow, Reinforcement Learning (RL), Pandas, NumPy, MLflow, Feature Engineering, Predictive Modeling, Statistical Analysis, A/B Testing

**Data Integration & Cloud Platforms:** Snowflake, AWS (S3, EC2, Lambda), Databricks (familiar), Apache Airflow, Dataiku, API Integration (REST, JSON, XML)

**ETL & Automation:** Airflow DAGs, Power Automate, Python Scripting, Data Validation & Transformation, Workflow Orchestration, Data Pipeline Monitoring

**Databases & Data Storage:** SQL Server, PostgreSQL, MySQL, AWS S3, MongoDB (basic)

**Data Visualization & BI Tools:** Power BI, Tableau, Streamlit, React Dashboards, KPI Monitoring

**Full-Stack Development:** Java (Spring Boot), React, Node.js (familiar), API Development, Microservices, RESTful Integration, UI/UX Collaboration

**Collaboration & Project Management:** Jira, Git, Confluence, Agile/Scrum, CI/CD Collaboration, Cross-Functional Communication

**Documentation & Data Governance:** Process Mapping, Data Lineage, Workflow Documentation, Schema Design, Model Versioning, Data Quality Assurance

## EDUCATION

**Master of Science in Data Science** | University of Memphis | 2023 - 2025

Relevant Coursework: Machine Learning, Artificial Intelligence, Data Mining, Deep Learning, Software Engineering

**Bachelor of Technology in Electronics and Communication Engineering** | SRM University, Andhra Pradesh, India | 2017 - 2021

## PROJECTS [\(Link\)](#)

### Financial News Sentiment Analyzer

- Developed NLP-based sentiment analyzer using FinBERT (Hugging Face Transformers) to process 500+ financial headlines daily from multiple news APIs.
- Built interactive Streamlit dashboard with real-time sentiment trends and stock correlation analysis, improving trading insight accuracy by 25%.
- Tech Stack: Python, FinBERT, Pandas, Streamlit, REST APIs

### Crop Yield Forecasting Model

- Designed predictive model using XGBoost and Random Forest with 95% accuracy on 10+ years of agricultural data including rainfall, temperature, and soil metrics.
- Integrated satellite imagery features using Google Earth Engine API; deployed model via Flask API for real-time yield predictions.
- Tech Stack: Python, XGBoost, Scikit-learn, Flask, Google Earth Engine

### Economic Indicators Dashboard

- Built automated Power BI dashboard integrating R scripts with FRED API to monitor 15+ macroeconomic indicators (GDP, inflation, unemployment).
- Reduced manual reporting time by 40% through automated data refresh and custom DAX calculations for trend analysis.
- Tech Stack: Power BI, R, FRED API, DAX

## CERTIFICATIONS

- Fine-Tuning for LLMs – LinkedIn Learning, 2025, Python Fundamentals for MLOps – LinkedIn Learning, 2024
- Intro to Snowflake for Data Scientists – Snowflake, 2025