LAKESH KUMAR SURYADEVARA

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Summary

Master's Candidate in Data Science (May 2025) with 3+ years of experience in Python, R, SQL, and ML pipelines, combining analytics, software engineering, and research. Skilled in building and deploying predictive models, ETL workflows, and dashboards for large-scale datasets. Adept at statistical modeling, experimentation, and translating complex data into actionable insights. Strong collaborator with experience in interdisciplinary projects, committed to data-driven innovation and research excellence.

SKILLS

Programming & Analysis: Python, R, SQL, Pandas, NumPy, Scikit-learn, TensorFlow, Keras
Machine Learning & AI: Regression, Classification, Forecasting, Clustering, Deep Learning, LLMs, CNNs
Data Engineering & Pipelines: ETL Pipelines, Snowflake, AWS S3, Database Schema Design, BigQuery
Visualization & Reporting: Power BI, Tableau, Streamlit, Excel
Collaboration & Research: JIRA, Confluence, Agile, Data Auditing, Research Documentation

EDUCATION

University of Memphis — Memphis, TN
Masters — May 2025
Major in Data Science
Relevant Coursework: Data Analysis, Software Engineering; LLM's; Machine Learning; Artificial Intelligence

SRM University — Andhra Pradesh, India
Bachelor's — 2021

WORK EXPERIENCE

FITPAA — Telangana, India
AI & Data Science Specialist / Machine Learning Engineer — June 2020 - July 2023

- Developed and deployed predictive ML models (Scikit-learn, XGBoost) achieving 95% accuracy to forecast user behavior, enabling data-driven interventions.
- Engineered ETL pipelines for large-scale health and engagement datasets, reducing manual processing by 40%.
- Built real-time Power BI dashboards to monitor KPIs, improving reporting efficiency by 40%.
- Conducted A/B testing and statistical analyses to optimize user engagement strategies.
- Implemented LLM-powered analytics pipelines to extract insights from unstructured data, improving personalization by 30%.
- Collaborated with cross-functional teams to translate research and analytics into actionable business insights.

FITPAA
Full Stack Python Developer

- Designed and optimized SQL database schemas, resulting in a 35% improvement in query performance and overall system efficiency.
- Constructed responsive web applications using the Flask and Django frameworks, integrated with REST APIs for seamless data flow.
- Automated backend workflows using Python, which reduced manual processing tasks by 40%.
- Developed interactive data visualization interfaces as part of a comprehensive health analytics platform.

PROJECTS

Cryptocurrency Market Analytics Dashboard

- Engineered a real-time cryptocurrency market dashboard using Power BI to provide up-to-the-minute volatility analysis and trading volume metrics.
- Integrated SQL and Python scripts with REST APIs to pull and process live market data.
- Designed interactive asset comparison tools and trend analysis features to enable data-driven trading decisions.

Financial News Sentiment Analyzer

- Developed a sentiment analysis tool utilizing FinBERT and Natural Language Processing (NLP) to process over 500 financial headlines daily.
- Built a user-friendly web dashboard using Streamlit in Python, which delivered actionable trading insights and automated trend alerts.

Brain Tumor Classification from MRI Scans

- Trained and fine-tuned a convolutional neural network (CNN) model using TensorFlow and Keras on a dataset of over 7,000 MRI scans.
- Achieved a high classification accuracy of 99%, demonstrating proficiency in deep learning model development.
- Optimized model training speed by 30% and significantly reduced prediction errors by 35%.

Crop Yield Forecasting Model

- Developed and validated a machine learning model using XGBoost and Python to predict crop yields with over 95% accuracy.
- Integrated various data sources, including environmental and satellite data, to enhance the model's predictive power for agricultural planning and optimization.

Economic Indicators Dashboard

- Constructed a dynamic macroeconomic dashboard in Power BI using data from the FRED API in R.
- Implemented automated data refresh capabilities, reducing the manual reporting workload by 40% and improving overall forecasting accuracy.

CERTIFICATIONS

- Intro to Snowflake for Devs, Data Scientists, Data Engineers
- Fine Tuning for LLMs (LinkedIn Learning)
- Complete Guide to Python Fundamentals for MLOps (LinkedIn Learning)
- SAS Essential Training Research (LinkedIn Learning)
- Python Data Analysis