Lakesh Kumar Suryadevara

Data Scientist | Python • Machine Learning • NLP

Memphis, TN | suryadevaralakesh99@gmail.com | (901) 679-0389

LinkedIn: www.linkedin.com/in/lakeshsuryadevara

Portfolio: www.lakeshsuryadevara.com

SUMMARY

M.S. Data Science candidate (May 2025) with experience designing and deploying predictive models from problem definition through business impact, developing end-to-end machine learning pipelines, and translating complex data into actionable insights. Skilled in Python, SQL, and modern ML frameworks to solve problems across classification, regression, NLP, and time series forecasting. Adept at collaborating with cross-functional teams to define objectives, communicate findings clearly, and deliver measurable business value through data-driven decision making.

SKILLS

Programming & Data Processing: Python (pandas, NumPy, scikit-learn, TensorFlow, PyTorch), SQL ,R

Machine Learning & Statistical Modeling: Predictive modeling, regression, classification, clustering, deep learning (CNNs, Transformers), natural language processing (NLP), recommendation systems, time series forecasting, model evaluation, cross-validation, hyperparameter tuning

Data Analysis & Visualization: Exploratory data analysis (EDA), feature engineering, hypothesis testing, A/B testing, data cleaning and transformation, Power BI, Tableau, Matplotlib, Seaborn, Plotly

Data Engineering & ML Lifecycle: End-to-end ML pipeline development, model deployment (Flask, FastAPI), MLOps fundamentals, data versioning, performance monitoring

Mathematics & Statistics: Probability and statistics, statistical modeling, linear algebra, calculus, time series decomposition, experimental design

EDUCATION

University of Memphis, Memphis, TN Master of Science in Data Science | GPA: 3.5/4.0 | May 2025

SRM University, Andhra Pradesh, India Bachelor of Technology in Electronics & Communication Engineering | December 2021

PROJECTS

Financial News Sentiment Analysis

Technologies: FinBERT, Streamlit

- Developed an AI-driven business intelligence dashboard to analyze sentiment from over 500 financial headlines daily.
- Improved sentiment analysis accuracy by 20%, enabling product teams to respond to market sentiment and support revenue-driven decisions.

Economic Indicators Dashboard

Technologies: Power BI, Tableau, FRED API

- Built a real-time, interactive dashboard integrating macroeconomic and financial data to visualize trends and risk indicators.
- Automated data workflows, reducing manual reporting time by 40% and improving stakeholder decision-making.

Brain Tumor MRI Classification

Technologies: TensorFlow, CNN

- Engineered a deep learning Convolutional Neural Network achieving 99% accuracy on 7,000 MRI images for medical image classification.
- Optimized model training, reducing computational time by 30% while maintaining predictive performance.

Crop Yield Forecasting

Technologies: XGBoost, Satellite Data

- Designed an XGBoost model to predict crop yields using multi-source satellite datasets ($R^2 = 0.92$).
- Enabled agronomists to optimize resource allocation, reducing waste by 15% and improving operational planning.

EXPERIENCE

Full Stack Developer, FITPAA | Hyderabad, India | June 2021 – March 2023

- Engineered and deployed RESTful APIs using Python and Flask to serve real-time machine learning predictions, directly enhancing the core application's user experience.
- Developed and maintained robust data pipelines for collecting and processing user data, utilizing Python libraries such as Pandas and NumPy.
- Authored and optimized complex SQL queries to manage and retrieve data from relational databases, supporting both application features and business intelligence reporting.
- Built, validated, and integrated machine learning models using scikit-learn to provide predictive insights on user adherence and health goal progression.
- Collaborated with an agile framework with product and engineering teams to translate business requirements into scalable, data-driven software solutions.
- Facilitated data-driven decision-making by designing and delivering key performance indicator (KPI) reports and visualizations to cross-functional teams.

CERTIFICATIONS

- Fine Tuning for LLMs (LinkedIn) – 2025
- Complete Guide to Python Fundamentals for MLOps (LinkedIn) – 2025
- Python Data Analysis (LinkedIn) – 2024
- Networking Basics (Cisco) – 2024