

LAKSHMI NARASIMHA KORRAPOLU

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OBJECTIVE

Data scientist with **2.5+** years of experience, seeking to apply analytical expertise and machine learning skills to drive business growth through data-driven solutions and actionable insights.

EDUCATION

University at Buffalo, The State University of New York

Jan 2025 - Dec 2025

MPS in Data Science and Applications

GPA: 3.92/4.0

Indian Institute of Technology Roorkee

July 2018 - May 2022

B.Tech in Chemical Engineering

GPA: 8.55/10.0

Certification Courses(Coursera): Data Structures(Python), Supervised ML, Neural Networks, CNNs

SKILLS

Programming Languages: Python, SQL, R, JavaScript, HTML, CSS

Frameworks and Libraries: scikit-learn, TensorFlow, Keras, Pandas, NumPy, Matplotlib

Tools and Technologies: AWS, Git, Postman, PySpark, Bitbucket, GitHub, Excel, OpenAI

Software and IDEs: Jupyter Notebook, Spyder, Sublime Text, VS Code, MySQL Workbench, MS Office

EXPERIENCE

IndusInd Bank

Nov 2023 - Dec 2024

Data Scientist(AVP)

- Performed extensive data analysis and visualizations on MSME customer data to uncover meaningful patterns and support informed decision-making.
- Developed a **Logistic Regression** model for risk segmentation in secured loans, improving accuracy over the previous model by categorizing customers into **Green (30%), Amber (50%), and Red (20%)** streamlining approvals, manual checks, and rejections.

Lotus Interworks

May 2023 - Oct 2023

Data Scientist

- Developed microapps using **Flask, OpenAI, SQL, AWS Lex, and Apache Druid**, including image/audio processing and a chatbot for smart calculations and CRUD operations.
- Built intelligent bots like the History Schema Chatbot and Smart Bot to retrieve, visualize, and interact with user data using OpenAI and AWS Lex.

Girnar Soft (CarDekho)

July 2022 - April 2023

Machine Learning Engineer

- Automated a real-time, location-based car recommendation system using **PySpark and Amazon SageMaker**, optimized code to reduce cloud computing costs by **8–10%** on large-scale datasets.
- Built a CNN-based document classifier with TensorFlow and improved named entity recognition using **AWS OCR and Rasa**, boosting Aadhaar and Cheque name precision by **12%**.
- Developed a lead scoring model using feature engineering and ML, achieving strong performance with **CatBoost** for general leads and **Random Forest** for OEM-specific cases.
- Extracted image data via **SQL** and trained a car classification model with pretrained Xception to identify vehicle angle, make, model, and color.

PROJECTS

Music Genre Classification Using Neural Networks - TensorFlow, Keras

July 2021 - Aug 2021

- Converted raw audio from the GTZAN dataset into spectrograms and extracted features like MFCCs, chroma, tempo, and harmonics. Trained **CNN and GRU** models for classification, achieving **84.9%** accuracy with GRU and **71.3%** with CNN.

Facial Expression Recognition with Keras - TensorFlow, Keras, OpenCV

Nov 2020 - Dec 2020

- Built a CNN from scratch using Keras to classify facial expressions (e.g., happy, sad, angry, etc.) from images and real-time video streams. Deployed the model to a web interface for live emotion detection.

ACHIEVEMENTS AND EXTRA-CURRICULARS

- Achieved a top percentile rank (**AIR 3658**) in JEE Advanced, one of India's most competitive engineering entrance exams.
- Contributed to event planning and execution during IIT Roorkee's annual technical fest, promoting social and ethical awareness.
- Led and coordinated a departmental sports tournament, demonstrating organizational and team management skills.