

# LAKSHMI NARASIMHA KORRAPOLU

Buffalo, NY

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## EDUCATION

University at Buffalo, The State University of New York

Jan 2025 - May 2026

*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, Databricks

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

## EXPERIENCE

IndusInd Bank

Nov 2023 - Dec 2024

*Data Scientist(AVP)*

- Worked extensively on **Databricks** to perform data fetching, analysis, and visualizations on MSME customer data, uncovering meaningful patterns and insights to 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 using TensorFlow and enhanced named entity recognition by integrating AWS OCR with Rasa, resulting in a **12%** improvement in the extraction accuracy of key customer information.
- 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.

Verzeo

May 2021 - Jun 2021

*Web Development Intern*

- Developed a dynamic To-Do List online application with **HTML, CSS, and JavaScript** that allows users to add, prioritize (High/Medium/Low), edit, and delete items through an interactive UI with a dropdown menu.
- Created an interactive virtual piano webpage that has the same structure and functionality as a real piano, including responsive key noises and realistic button design.

## PROJECTS

Music Genre Classification Using Neural Networks

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

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.