

Rohit Ramesh Shetty

Los Angeles, CA | (213) 245-8232 | rshetty@usc.edu |
<https://rohit-ramesh-shetty.netlify.app/>

EDUCATION

University of Southern California

Master of Science, Computer Science
Web Technology, Artificial Intelligence

January 2025 – December 2026

Los Angeles, California

Ramrao Adik Institute of Technology

Bachelor of Computer Science, Minor in Data Science

Data Structures and Algorithms, Machine Learning, System Design, Database, Data Warehousing

July 2020 – July 2024

Navi Mumbai, India

EXPERIENCE

Delphi Consultant Middle East

Mumbai, India

Data Associate – AI & Data

August 2024 – December 2024

- Constructed an intelligent chatbot leveraging Azure OpenAI and SQL, reducing query resolution time by 35% and enhancing user satisfaction.
- Facilitated knowledge sharing sessions on Python-based ATS optimization, strengthening collaboration between engineering and HR teams, resulting in a 20% boost in candidate selection accuracy.

BTB – Be The Bank

Remote, India

Software Engineer Intern

January 2024 – July 2024

- Implemented M-Pesa API for automated B2B payments, strengthening financial accessibility and reducing payment failures by 30%.
- Led a team of 4 developers for the BTB payment module project, fostering a collaborative environment and ensuring seamless communication between developers and business stakeholders for smooth API integration.

Spay India

Navi Mumbai, India

Software Engineer Intern

January 2023 – April 2023

- Created key features of a B2B2C financial inclusion platform leveraging JDK, React, and Java, scaling usage to 10,000+ users.
- Restructured database architecture to improve system efficiency, cutting down data retrieval time by 30%.

PROJECTS

Melody Generation Using RNN LSTM | *Python, RNN-LSTM, music21*

July 2023 – December 2023

- Built a Recurrent Neural Network (RNN) with Long Short-Term Memory (LSTM) achieving 92% accuracy and 24% loss.
- Streamlined musical data preprocessing with `music21`, cutting down data inconsistency by 40% and advancing model convergence speed by 25%.
- Engineered an RNN-LSTM model for melody generation, analyzing 1,700+ MIDI sequences to boost pattern recognition and ensure coherent compositions.

Stroke Risk Prediction Using Deep Neural Networks | *Python, DNN*

January 2023 – July 2023

- Engineered a Deep Neural Network (DNN) classifier with ReLU and Sigmoid activations, optimizing model architecture to enhance generalization and achieve 92.57% test accuracy and 98.2% training accuracy.
- Resolved data imbalance issues using SMOTE oversampling and advanced data synthesis techniques, improving recall to 97% and enhancing prediction reliability.
- Collaborated with a team of 4 researchers, optimizing hyperparameters and feature selection to improve stroke risk detection accuracy, ensuring efficient deployment and real world applicability.

TECHNICAL SKILLS

Languages: Python, Java, SQL, JavaScript, HTML/CSS, Kotlin

Frameworks & Libraries: React, Node.js, Flask

Databases: MySQL, MongoDB

Cloud Technologies: Azure Databricks, GCP (Google Cloud Platform), AWS (EC2, Lambda, S3)

Other Tools: Power BI

Certifications: Oracle Generative AI Certified Professional; Multimodal RAG (DeepLearning.AI); Python Bootcamp (Udemy)

HONORS

- Best Technical Presentation – IEEE Conference (500+ audience, Stroke Risk Prediction).
- Published technical paper in the Springer Journal for Melody Generation.
- Copyrighted projects Stroke Risk Prediction System and Melody Generation by Government of India.
- Leadership and Teamwork: Treasurer and Public Relations Officer at SOW DY Patil.