Rohit Ramesh Shetty

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Education

University of Southern California January 2025 – December 2026
Master of Science, Computer Science *Los Angeles, California*
Web Technology, Artificial Intelligence

Ramrao Adik Institute of Technology July 2020 – July 2024
Bachelor of Computer Science, Minor in Data Science *Navi Mumbai, India*
Data Structures and Algorithms, Machine Learning, System Design, Database, Data Warehousing

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.