Siddhi Galada

(818) 272-0721 Los Angeles,California galada@usc.edu siddhi-galada SiddhiGalada44 Portfolio

Education

University of Southern California **Los Angeles, CA**
Master of Science in Computer Science *Aug 2024 – May 2026 (Expected)*

Sir MVIT **Bengaluru, India**
Bachelor of Engineering in Computer Science and Engineering, CGPA: 9.09/10 *Dec 2020 – Jul 2024*

Technical Skills

Languages: Python, Java, C++, C, R, JavaScript, TypeScript, Git, SQL, HTML, CSS,GO
Databases: MongoDB, PostgreSQL, DynamoDB, MySQL
Technologies/Frameworks: Linux, MATLAB, Flutter, Node.js,React,AWS

Experience

Varcons Technologies Pvt Ltd **Bengaluru, India**
Software Engineering Intern – NLP Systems *Aug 2023 – Oct 2023*

- Developed a scalable text preprocessing engine in Python to clean and normalize COVID-19 Twitter data, improving pipeline efficiency by 30%.
- Modularized sentiment analysis components to support maintainable classification and visualization workflows across multiple experiments.
- Fine-tuned a BERT-based sentiment classifier using Hugging Face Transformers, achieving 89% validation accuracy on domain-specific data.
- Collaborated with a cross-functional development team to enhance model robustness and resolve data inconsistencies through iterative testing and refinement.

Projects

Secure Decentralized Audit System for Electronic Health Records **Los Angeles, CA**
Python, Flask, Blockchain, Cryptography, RBAC *Mar 2025 – Apr 2025*

- Designed and implemented a blockchain-based audit logging system for Electronic Health Records (EHR), ensuring data integrity and non-repudiation through cryptographic hashing.
- Integrated role-based access control (RBAC) and public-key cryptography into a Flask web interface to enforce secure session management and authorization workflows.

Stock Market Prediction Using Random Forest **Los Angeles, CA**
Python, Scikit-learn, Pandas, NumPy, yfinance *Feb 2025 – Apr 2025*

- Engineered a modular prediction pipeline using Random Forest with custom technical indicators and walk-forward validation on 20+ years of S&P 500 data.
- Achieved 57% precision (5.7% above baseline) by optimizing feature engineering and validating model generalization across volatile market cycles.

Genetic Disorder Prediction Using Machine Learning **Bengaluru, India**
Python, PyTorch, Feature Engineering *Jan 2024 – May 2024*

- Built a classification model using PyTorch to detect genetic disorders from high-dimensional DNA microarray data (7,070 features).
- Achieved 94.7% accuracy with an Extra Trees Classifier by applying dimensionality reduction and stratified cross-validation on a 1,000+ sample test set.

Maternal Database Management System **Bengaluru, India**
MySQL, PHP, HTML, React *Jan 2023 – Mar 2023*

- Developed a full-stack maternal health management system using React, PHP, and MySQL, enabling immunization tracking and appointment reminders for 2,000+ patients, improving compliance by 25%.

Leadership

Member, Women Who Code **Since Feb 2020**
Community Engagement

- Facilitated networking events that connected over 100 women in technology, enhancing collaboration opportunities and providing access to mentorship; established a follow-up system that led to a 25% increase in job placements.