ANJALI SINGH

ML Engineer | Student | Los Angeles, California | 323-401-2257 | singhanj@usc.edu | https://www.linkedin.com/in/anjalis2112/

EDUCATION

University of Southern California — Los Angeles, CA, US
Master of Science (M.S.) — August 2023-May 2025
Relevant Coursework: CS 544: NLP, CS 567: ML, CS 571: Web Tech, CS 570: Algorithms

Manipal Institute of Technology — Manipal, India
Bachelor of Technology (BTech) — July 2018-July 2022

SKILLS

- Programming Languages: Python, Java, C++, SQL, JavaScript
- Frameworks: PyTorch, scikit-learn, NLTK, Git, AWS, GCP, SpringBoot, Django, Flask, React, Angular, HTML/CSS, Swift

PUBLICATIONS

- Reimagining GNN Explanations with Tabular Data Insights @ ICML XAI Workshop, 2021

PROFESSIONAL EXPERIENCE

SAP Ariba Inc. — Palo Alto, CA
Machine Learning Engineering Intern — June 2024-Present
- Reduced dev time by 15% by integrating GPT-4o and Gemini 1.5 Pro LLMs for automated Figma data extraction and code generation
- Developed LLM-based recursive prompting to guide step-by-step frontend development and code generation processes
- Leveraged Figma REST API for programmatic data extraction, enhancing efficiency in frontend development and code generation

Goldman Sachs — Bengaluru, India
Engineering Analyst — August 2022-June 2023
- Pioneered a robust volume testing framework with Gatling, Java, and React, improving request latency by 20%
- Designed the Deal Management Website front-end module using React for better user experience
- Orchestrated migration of on-premise services to AWS, optimizing system performance by leveraging cloud capabilities

Goldman Sachs — Bengaluru, India
Summer Intern — June 2021-July 2021
- Collaborated on demising of legacy applications, contributing to modernizing and creating systems using Django and Appian
- Spearheaded the full-stack development of a new webpage for entering appraisal data, overhauling UI and UX

IBM — Bengaluru, India
Global Remote Mentorship Intern — August 2020-May 2021
- Explored issues with explaining Graph Neural Networks by utilizing the Entity Matching task to draw insights from tabular models
- Proposed improvements for explanations focusing on feature importance, node-level insights, and contextual edge relevance

PROJECTS

Multilingual Approach to Narrative-based Empathic Similarity — February 2024-April 2024
- Utilized Mistral-7B for initial experiments assessing multilingual model generalization post-monolingual fine-tuning
- Leveraged automated machine translation to expand dataset coverage to five languages using OpenAI's GPT-3.5 for translation
- Employed Vanilla (eg BART) and SentenceTransformers (pre-trained on semantic similarity) to explore empathic resonance abilities

Stockify iOS App — April 2024-May 2024
- Developed an app facilitating trading and portfolio management with real-time updates and complex portfolio tracking features
- Implemented a user-friendly interface with SwiftUI, integrating MongoDB for robust data storage and retrieval

Chord Based Generation of Various Music Models vs LSTMs — September 2023-December 2023
- Engineered diverse AI models, including autoencoders, N-grams, GANs, and diffusion models, to create complex jazz music
- Executed comparative analyses against LSTMs, enhancing autoencoder and N-gram models for improved musical complexity
- Developed metrics using Muspy and music21 for analyzing music generated by machine learning models