SARANG KADAKIA

📱 (+91) 9137871501   sk11634@nyu.edu   🔗 sarang-kadakia   💻 Sarang1018

EDUCATION

New York University, Tandon School of Engineering   **April 2026**
Masters of Science in Computer Engineering   New York, USA
Ongoing Courses − Machine Learning, Real-Time Embedded Systems, Computing Systems Architecture
Dwarkadas J. Sanghvi College of Engineering, Mumbai University   **July 2024**
BTECH in Information Technology with Minors in Web Application Development (CGPA: 9.2/10)   Mumbai, India
Courses - Parallel and Distributed Computing, Machine Learning, Advanced Machine Learning, Data Warehouse Management, Data Structures and Algorithms, Database Management, Big Data Analytics, Artificial Intelligence, Software Engineering.

TECHNICAL SKILLS

LLMs: Mistral, Llama2, Llama3, Falcon, Zephyr, CodeGen, CodeGemma, OLMO, Phi3, Gemini, OpenAI GPT, Claude (Sonnet, Haiku, Opus)

Languages: Python, Flask, Streamlit, PHP, Java, HTML, CSS, JavaScript, MongoDB, Pinecone, ChromaDB, MySQL, and SQLite3.

Methodologies and libraries: Deep Learning, Reinforcement Learning, Transfer Learning, Ensemble Models, Natural Language Processing (NLP), Computer Vision, Langchain, Langsmith, HuggingFace, SciPy, NumPy, Pandas, TensorFlow, PyTorch, Scikit-learn, Keras, Matplotlib, Seaborn.

Software: Google Colab, PyCharm, Visual Studio Code, Android Studio Code, Figma, Canva, Git and GitHub.

RELEVANT EXPERIENCES

Indian Institute of Technology Patna   **March 2024 − Present**
NLP Research Intern / Mentor: Dr. Sriparna Saha   Bihar, India
- Developed and fine-tuned open-source LLMs (Mistral, Llama2, Zephyr) by applying PEFT techniques(LORA, QLORA) for ADR/NON-ADR classification and sentiment analysis of Hinglish (codemixed) tweets; also compared results with previously implemented BiGRU, BiLSTM, and BiRNN models.

Cloud Counselage Pvt. Ltd.   **January 2024 − Present**
AI/ML Domain Lead   Mumbai, India
- Mentored interns, addressing queries and guiding them on problem statements, while evaluating and offering feedback on internal projects, ensuring they met industry standards, which earned me the 'Industry Academia Excellence Award.'

Project Lead
- Facilitated candidate interviews, led a team to develop a Template Matching Algorithm using open-source Llama-3 from HuggingFace to automate plagiarism detection across domains (AI, ML, Cloud, Web Development), and documented this innovative approach in a research paper, enhancing evaluation accuracy.

Rejolut- A Web 3.0 Company   **March 2024 − May 2024**
Generative AI Intern   Mumbai, India
- Developed an AI co-pilot for advanced contract analysis and a PDF reader RAG system using Langchain and OpenAI's GPT-3.5, chosen after comparing input/output token pricing with models like Gemini and Claude (Sonnet, Haiku, Opus). This enhanced SAM.gov's capabilities for accurate text extraction and query responses.

Mirackle Solutions   **January 2023 − June 2023**
Software Development Intern   Mumbai, India
- Developed "mauritius.holidays.io" with HTML, CSS, and React, simplifying traveler destination choices, and managed MySQL database creation and logic implementation in Laravel (PHP) for "yellowmarkets.com".

PROJECTS

Distributed ML Training on Android Devices/ *Dr. Vinaya Sawant*   **Spring 2023**
- Developed a distributed ML system using Flutter and PyTorch on interconnected Android devices with MobileNet, optimizing processor loads, achieving 30% faster inference times, and enhancing accuracy through real-time image capture, weight distribution via WiFi P2P, and local storage on AWS.

AI-Driven Adaptive MCQ Testing System for Parakh/ *Prof. Neha Katre*   **Spring 2023**
- Developed an adaptive MCQ testing system for Parakh, an Indian government exam preparation platform, using AWS, ML models (K-Means, Item Response Theory, Bayesian Knowledge Tracing), and web development (React, Django, PostgreSQL), presented to the Education Minister of India and winning Smart India Hackathon 2023.

Innovative AI System for Car Damage Assessment and Price Prediction/ *Prof. Prachi Tawde*   **Fall 2023**
- Developed an advanced system integrating a self-trained model for damage localization (dents, scratches, paint, oil chips, etc) achieving 95% accuracy, VGG16 and ResNet for damage detection, and XGBoost for price prediction, using AI/ML, Python, Jupyter, and Streamlit; published in the International Journal of Research and Analytical Reviews, Oct-Nov 2023, Volume 10, Issue 4 ([DOI](#)).

NLP System for Research Paper Analysis and Future Citation Prediction/ *Prof. Prachi Tawde*   **Spring 2022**
- Guided junior researchers in developing an NLP-based research paper analysis system, using cosine, Jaccard, LSA, Doc2Vec, TF-IDF, and all-MiniLM-L6-v2 for document similarity, visualizing relationships, ranking top papers with summaries, and predicting future citations using LSTM.

ChatBot-Enhanced House Price Prediction with Ensemble Learning/ *Prof. Neha Katre*   **Fall 2022**
- Developed a house price prediction system using Ensemble Learning and a self-trained ChatBot integrated into a Flask-based website with registration, OTP verification, utilizing Python, Flask, SQLite3, and GPT-3.5 libraries. Published in the International Journal of Creative Research Thoughts, Sept 2023, Volume 11, Issue 9 ([DOI](#)).

- Led a team to develop a hybrid book recommendation system using SVD, KNN, TF-IDF, and NLP, merging content-based and collaborative filtering, and created a user-friendly Flask website with secure login features using Python.

AWARDS AND COMMUNITY ENGAGEMENT

- Won the 'Smart India Hackathon' 2023, a prestigious National Level Competition hosted by AICTE and the Government of India, and was subsequently invited to the IDE Bootcamp to transform the winning solution into a market-driven venture.
- Honored with the 'Industry Academia Excellence Award' in 2024 for guiding and mentoring over 200 AI/ML interns, solving their problems, and evaluating their projects at Cloud Counselage Pvt. Ltd.; subsequently conducted an internship session for the second-year Information Technology students at D.J. Sanghvi College of Engineering.
- Bagged 1st place in the 'Data Analytics' category at 'DATAHACK1.0' by excelling in AI/ML model development during Hackathon, in 2023.
- Achieved the Best Software Project Award at DJSCE Trinity TechExpo 2024, standing out among 100 top-tier software projects.
- Promoted to Vice-Chairperson at 'DJeXpress' for leading two successful MUNSOC events in 2022-2023 and earned 2nd place in the 'TRINITY' 2022-2023 college dramatics event for a praised Bollywood character portrayal.