



MUKESH PATEL SCHOOL OF
TECHNOLOGY MANAGEMENT
& ENGINEERING

Name - Samridhi Raj Sinha
Computer Engineering
22/01/2005



EDUCATION

MPSTME, NMIMS University <i>B. Tech in Computer Engineering</i> CGPA: 3.81/4	2022 - 2026
Pace Junior Science College HSC: 78.6	2020 - 2022
Podar International School ICSE: 96.83	2020

PROJECTS

ProctorAI - Offline Cheating Detection System

Built an offline exam hall cheating detection system using YOLOv8 enhanced with ECA/CBAM attention mechanism, trained on a custom classroom dataset and achieving 88% mAP@50 in real-time, deployed on a Streamlit dashboard for live monitoring and post-exam behavioral analytics.

Gurukul AI: Agentic Academic Hub

Built an agentic AI platform using FastAPI and fine-tuned LLaMA 3.1, with custom RAG pipeline, FAISS & FastEmbed and React frontend. Implemented semantic grading with Tesseract OCR, anti-hallucination content creation, and an arXiv research hub.

SpectraViT: Melanoma Classification

Developed a ViT-based hybrid model combining Fourier and Wavelet transforms for melanoma classification, achieving 92% accuracy. Implemented in PyTorch with AdamW and Cosine Annealing; evaluated using ROC-AUC and F1-score.

INTERNSHIPS

Indian Institute of Technology Gandhinagar, Gujarat, India | May 2025 - July 2025

Developed EKA-EVAL, a modular Python framework to benchmark India's 120B EKA foundation model. Engineered an automated pipeline with Hugging Face integration to assess LLM's performance on 35+ benchmarks across 29+ Indic languages, across code, reasoning and world knowledge.

Nanavati Max Institute of Cancer Care, Mumbai, India | Sep 2024 - Mar 2025

Manually contoured tumor bed volumes on pre- and post-operative CT scans under radiation oncologist guidance, achieving measurement consistency with less than 1mm variation for model training. Developed 3D U-Net architecture model with hybrid loss achieving 0.908 DSC / 1.19mm HD95 on validation and authored research paper.

Jio Platforms Limited (JPL), Mumbai, India | May 2024 - July 2024

Boosted data processing efficiency by 30% through an automated annotator tool built with Python, FastAPI, spaCy. Designed a low-code multi-agent system using CrewAI, Langchain and RAG for seamless task automation and intelligent collaboration, cutting development timelines by 40%.

CERTIFICATIONS AND PUBLICATIONS

- Pursuing online Bachelor's in Science in Data Science and Programming - IIT Madras (Current: Diploma level).
- Presented SpectraViT: A Novel Hybrid Architecture for Melanoma Classification at ICHISS conference - Elsevier.
- Eka-Eval : A Comprehensive Evaluation Framework for Large Language Models in Indian Languages.
- Deep Learning-Based Automated Delineation of Breast Tumor Bed Volumes for Post-Operative Radiotherapy Planning Post Breast-Conservation Surgery: A Feasibility Study at IJMPO Journal.

CORE SKILLS

Technical Skills - Python, C++, Java, JavaScript, SQL, HTML/CSS, React, FastAPI, PyTorch, TensorFlow, scikit-learn, Hugging Face, Transformers, LangChain, CrewAI, Streamlit, OpenCV, YOLO, RAG, Docker, Kubernetes, AWS, Power BI, Git.

SOFT SKILLS - Analytical thinking, Research Oriented mindset, Creative problem solving, Team collaboration, Adaptability and continuous learning, Presentations and Public speaking.

Achievements and Positions of Responsibility

- Led web development, organised research workshops and tech initiatives as IEEE Society Technical Subhead.
- Placed 1st in Scroll Hacks Hackathon track among 500 participants for mental health assistant application.
- Awarded second best project for Proctor AI in IEEE Savishkar Competition 2025.
- Placed 1st rank in Internal Hackathon of SIH 2025 in healthcare/ai domain.