Jinesh Modi

+91 9891165605 | f20220084@hyderabad.bits-pilani.ac.in | [LinkedIn](#) | [Github](#) | [Portfolio](#)

EDUCATION

Birla Institute of Technology and Science, Pilani   Hyderabad Campus, Telangana
Bachelor of Engineering in Computer Science, 8.57 CGPA   *August 2022 – May 2026*
- Member of **cruX: The Coding and Programming Club of BITS Hyderabad**.
- CodeForces Handle: **@cat.lover** with a rating of **1309** (Pupil).
- Engaged in Competitive Programming activities focusing on algorithms, data structures, and problem-solving.

St. Mary's Senior Secondary School   Delhi, India
Class XII in Computer Science, 95% (CBSE)   *2022*

EXPERIENCE

Software Intern   Jun 2025 – Jul 2025
Twilio   *Remote*
- Integrated Salesforce CRM with Twilio Unified Profiles via a scalable React.js data pipeline, enriching 10,000+ customer records and accelerating profile generation for enterprise clients
- Architected a multi-region AWS deployment (us-east-1, eu-west-1), enabling secure, real-time CRM data synchronization across 50+ collections.
- Reduced customer data onboarding time by 40% through a robust S3-to-UP pipeline, enabling real-time insights and boosting Unified Profiles adoption.

Summer Intern   May 2024 – Jul 2024
CogniX Technologies   *Remote*
- Delivered end-to-end yoga platform with pose correction and personalized guidance, implementing full-stack solution using Django and React.js that increased user engagement by 40%.
- Built 3 core product features (instructor dashboard, profile management, live chat) enabling seamless instructor-student connections , resulting in 85retention rate.

PROJECTS

Amul Product Availability Notification System | *Web Automation & Mobile Notifications* May 2025 – Jun 2025
- Developed a Python based automated monitoring system that tracks Amul's online store inventory for protein products (paneer & whey) and sends realtime SMS notifications via Twilio's API when multiple products become available.
- Implemented scheduled automation using cron jobs to check product availability every hour, reducing manual monitoring effort and ensuring timely purchase for high-demand protein.

Motion Swap - High-Fidelity Face Swapping | *Machine Learning*   Feb 2025 – Apr 2025
- Optimized deep learning architecture by integrating attention mechanisms and dynamic loss weighting into SimSwap face-swapping model, improving identity preservation accuracy from 76% to 85%.
- Developed and deployed First Order Motion Model for self-supervised facial animation using keypoint estimation, implementing region-specific error analysis for enhanced deepfake detection.
- Achieved 28% performance improvement in generative model quality, reducing FID score from 45.3 to 32.8 on VGGFace2-HQ dataset through architectural innovations.

HarmoniX | *Web Development and Database Systems*   Feb 2024 – Apr 2024
- Developed a comprehensive music management application designed to organize and manage music collections.
- Implemented 4 database triggers, 5 procedures, and constructed tables, keys, and indexes to speed up query search through PL/SQL.
- Created user-friendly GUI using NextS to enhance the overall user experience through features like Like/Share etc.

TECHNICAL SKILLS

Languages: Python, SQL, JavaScript, HTML, CSS, C++
Frameworks: React.js, Next.js, Spring Boot, Django
Developer Tools: Git, GitHub, Postman, Firebase, Socket.io, VS Code, PyCharm
Libraries: React, Material-UI, Next-UI, pandas, NumPy