

Harsh Shah

Avid learner

Bachelor of Technology

DJ Sanghvi College of Engineering, Mumbai

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GitHub Profile
LinkedIn Profile
Portfolio

EDUCATION

•Bachelor of Technology in Computer Engineering

DJ Sanghvi College of Engineering , Mumbai

2020-2024

CGPA: 9.21

•CFA Level 2 Candidate

2025

EXPERIENCE

•Morgan Stanley

SWE Intern

May - July 2023

Mumbai , MA , India

- Upgraded an augmented asynchronous client API using in-memory cache reducing the overhead by **22%**.
- Integrated **4** comprehensive and interactive highcharts that display real-time data of agent exposure.
- Migrated the User-Interface (**2** complex screens) with upgraded angular to a mono-repo with over 40 projects.
- Developed unit angular tests for multiple components of 1st screen thereby extending the test coverage to **82%**.

•Caarya

Software Engineer

Jan - June 2025

Online

- Developed a **2** fold extraction layer to scrape startup data from multiple data sources.
- Integrated a conversational intelligence to Twilio API engaging in adaptive choice based interview with the founders.
- Constructed a transformation layer to analyze chunks of data and generate hidden insights by leveraging LLMs.
- Deployed **2** Production grade internal tools for the HR and Marketing team.

PROJECTS

• [Sumpy](#)(Open Source)

The community-developed, free and open-source solar data analysis environment for Python.

- Refactored the sunpy attributes and the world coordinate system to updated version in [PR-6732](#).
- Overhauled the HTTP error handling in the scraper client along with re-query limiter and extending the pytest coverage to **72 %** in [PR-7541](#).
- Technology Used: Python

• [Encache](#)(NPM Package - **600+** downloads)

A lightweight , Inmemory Async Caching Library for your Nodejs Server.

- Developed a GET method with **0.01** ms average latency, optimized for high-frequency requests.
- Integrated **6** eviction policies with seamless dynamic swapping, ensuring no data loss.
- Implemented LZ4 compression, reducing data chunk size by up to **50%**.
- Technology Used: TypeScript, Javascript, NodeJS, Jest

• [SoulSupport.ai](#)(Won UST D3code)

AI based virtual behavioral companion to support a mentally stressed and disturbed individual with text and audio support 24/7.

- Designed an AI bot utilizing a fine-tuned **Falcon-7B** model with QLoRa, enabled with chained conversational responses.
- Incorporated **6** business features like doctor search, automated user report generation and personalized diet plan recommendations.
- Built real-time stress and anxiety detection using dual sentiment analysis models processing audio and video data.
- Technology Used: NodeJs, React, Falcon-7B, Flask, Python, MongoDB

ACHIEVEMENTS

- ICPC Asia West Regionals**: 3x regional finalist with all India ranks **61**, **57** and **84** from 2022 - 2024.
- UST D3Code 2023**: Winners of India's largest hackathon, with over **12500+** participating teams.
- TIAA , T3Hacks 2024** : 2nd Runner up after competing against **2200+** registered participants.
- VOIS International Finalists**: India top **10** out of **5000+** competing teams.
- Codeforces**: Expert, India top **95%** percentile
- Newton School**: Global rank **76** out of **12000+** participants in Coderush march 2023.

TECHNICAL SKILLS

Languages: Proficient in C/C++, Python, Javascript, Typescript

Libraries and Frameworks : C++ STL, Angular, NextJs , NodeJs, FastApi, PrismaORM, Jest

Web Dev Tools: VScode, Git, Github , Cursor

Cloud/Databases: MongoDB, MySQL, Weaviate, Docker , PostgreSQL , Google Cloud Platform ,Firebase , Vercel

Relevant Coursework: Data Structures & Algorithms, Operating Systems, OOPs, Database, Software Engineering.