

Harsh Shah

Avid Learner

Bachelor of Technology

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GitHub Profile

LinkedIn Profile

Codeforces

EDUCATION

•Bachelor of Technology in Computer Engineering

DJ Sanghvi College of Engineering , Mumbai

2020-24

CGPA: 9.28

PERSONAL PROJECTS

•SoulSupport.ai(Won UST D3code 2023)

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

- Driven by a Falcon-7B fine-tuned using QLoRA and 4-bit quantization ,empowered with chained responses
- Stacked with 6 exclusive features like smart doctor search , user report generation, diet plan recommendation etc.
- Stress and Anxiety detection in real-time using 2 independent sentiment analysis model through audio and video.
- Technology Used : NodeJs , React , Falcon-7B , Flask , Python , MongoDB

•Imgress

A one stop destination to create and orchestrate your reverse image search engine containers.

- Highly scalable design backed by 3 serverless distributed microservices connected to high performance database.
- Powered by a vector database and pre-trained Img2-vec model for robust and accurate Image similarity search with accuracy up to 92%
- Supported by a trail of audit logs allowing the users to manage and track up to 500 past actions for an instance efficiently.
- Technology Used : NodeJs ,React , AWS , Weaviate , mySQL(TiDB).

ACHIEVEMENTS

- ICPC Regionalist**: 3x regionalist with ranks **61** , **57** and **84** in year 2022 , 2023 and 2024 respectively
- UST D3Code 2023**: Winners of India's largest hackathon ,with over **12500+** participating teams
- TIAA , T3Hacks 2024** : overall 3rd with **2200+** registrations
- Codeforces**: Specialist , India top **90%** percentile
- Newton School**: Global rank **76** out of 12000+ participants in coderush march 2023
- Pan India Coding challenges winner**: Rank-1 in semicode 2022 , rank-1 in Ignite 2023 , rank-3 in Crackathon

EXPERIENCE

•SWE Intern

May - July 2023

Morgan Stanley

Mumbai , MA , India

- Programmed an augmented asynchronous client pub-sub service that reduces the overall API call overhead by 28%
- Integrated 4 visually appealing and Interactive Highcharts to show real-time data regarding transactions and agent exposure.
- Migrated the User-Interface (2 complex screens) with upgraded angular to the company's monorepo with over 40 projects.
- Developed angular tests for multiple components of 1st screen while proceeding to QA and reaching test coverage of 82%

•DSA Instructor Intern

Oct 2022 - Dec 2022

CP Initiative by USACO guide

Online

- Coached Data Structures and algorithms to 120+ students in lectures on silver topics like Graphs , 2P , DSU.
- Delivered 5 high quality problems for their regular as well as annual open contests conducted by the organization

TECHNICAL SKILLS AND INTERESTS

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

Libraries : C++ STL , Reactjs , Flask

Web Dev Tools: Nodejs, Express , VScode , Git , Github

Cloud/Databases: MongoDB , MySQL , TiDB , Weaviate

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

Areas of Interest: Web Design and Development, Algorithms, Mathematics.

Soft Skills: Strong analytical abilities, dedicated to self-learning, precise presentations

POSITIONS OF RESPONSIBILITY

•Campus Ambassador Intern Infosys, Remote

2022-2023

- Responsible to handle and organize all Infosys events and hiring drives on campus.