

TECHNICAL EXPERIENCE

Tessact July 2022 — Present
Software Development Engineer Bengaluru, India

- Rebuilt the product from scratch in **Next.js 14**, TypeScript, and Tailwind, leading to a **90% reduction** in technical debt and achieving **97% crash-free sessions** tracked by Sentry.
- Engineered a **component library** with dropdowns, carousels, and toasts, leading to consistent UI throughout the application.
- Implemented **Remotion** to build a highly customizable video editor and **HLS.js** to play videos seamlessly with Adaptive Bitrate Streaming.
- Architected a commenting experience with video annotations, mentions, hashtags, and video time range selection along with **real-time collaboration**, allowing users to follow each other and see annotations as well as comments in real time.
- Constructed real-time updates and notifications across the product using **Liveblocks** and WebSockets.
- Designed a library with drag-and-drop functionality to move and select interfaces along with grid and table views.
- Integrated **Framer Motion** to build animations and transitions for each component.
- Developed an admin panel to manage workspaces, teams, and user roles.

Entrepreneurship Cell, SLRTCE August 2020 — May 2021
Web Developer

- Fabricated a responsive client for a course management system in **React** and **Material UI** with a **Express.js & Mongoose** server.
- Utilized **Git & Github** for **CI/CD** with live deploys on **Netlify** and **Heroku** hence reducing code review time by **50%** with increased communication and teamwork.

PROJECTS

Saathi - AI Companion for Mental Health Sept. 2022 - Present
[Live website](#)

- Web-scraped over **100,000** posts from Reddit and trained a **CNN model** with **85%** accuracy using **Keras** to predict probability of symptoms of a mental illness such as bipolar disorder, depression and anxiety.
- Fabricated a **seq2seq encoder-decoder attention** model to generate unique and human-like responses from **CounselChat** dataset.
- Building a platform for users to consult/ contact a psychiatrist or any other mental health professional and a **dashboard** for professionals to analyze predictions from ML models for their respective patients.

Alumni Community Feb. 2022 - April 2022
[Live website](#)

- Engineered a forum with groups, posts, comments and vote feature to solve the communication gap between students and alumnus.
- Programmed a CRUD API to support forum & user management using **Express.js** and **Mongoose (Mongo Atlas)**.
- Built interface using **React** and **Material UI** with support for light and dark theme.

Maths Help Bot June 2020 — May 2021
[Source code](#)

- Developed and deployed to get results from **Google search & WolframAlpha API** and connected it with WhatsApp.
- Authored an [article](#) on DEV.to formulating the steps to build this project from scratch.

ACHIEVEMENTS & ACTIVITIES

4th Rank - IIT Bombay Research Conclave RESCON competition at National Level 2023

Codechef: Highest Rating: 1821; Ranked 104 globally in March Lunchtime 2021 **Division 2**.

Codeforces: Highest rating: 1444; Ranked 1315 globally in Round #721 (Div 2).

HackerRank: 5 star in Problem Solving.

Leetcode: Solved 50+ problems and rated 1454.

ICPC: Rank 314 & 1139 at Gwalior-Pune Regionals ICPC 2020, 2021 respectively. 2020, 2021

Qualified to Round 2 - **Meta Hacker Cup**. 2022

Winner - **CodebuG** at ACM VIT and CodeMania, Knapsack 2.0, Algorithm Design, Web Design at SLRTCE. 2020 - 2022

Completed **Hacktoberfest** 2020, 2021. 2020, 2021

Leadership skills: Web Development Lead **Student Council**, Technical Lead at **Google Developer Student Club SLRTCE**. 2022 - 2023

SKILLS

Tools and Languages Typescript, React.js, Tailwind, Next.js, Django, Flask, Python, C/C++, PHP, MySQL, NLP, Linux.
Communication English, Hindi and Marathi.

EDUCATION

Bachelor of Engineering in Computer Engineering, University of Mumbai CGPA: 9.15 2019-23

Higher Secondary Certificate Examination - CS, Maharashtra State Board 74.92% 2019