

EXPERIENCE

- **GreenBord**
Full-Stack Software Engineer
 - **Software:** Working on full software package that consists of 3 native and 3 web-apps all connected to a common backend thus allowing the accessibility through browser, native, and web applications.
 - **Tech Stack:** MERN, React Native, JavaScript, Next.js, CSS3.
 - React Native Developer*
 - **Project:** Education app involving courses, assignments, lectures, tests, user profile, attendance, and parent-view.
 - **Tech Stack:** MongoDB, Express, React, Node.js, React Native, JavaScript, Next.js, CSS3.

Mumbai, IN
Feb'21 - Present

Jan'21 - Feb'21
- **Starwisp Industries (Edvora)**
Frontend Developer
 - **Tech Stack:** React.js, Next.js, JavaScript, CSS3.

Bangalore, IN
Jan'21 - Present
- **University of Cambridge**
Development Intern
 - **Project Development:** Developed three cross-platform applications and deployed the ML models on GCP.
 - **Management:** Managed application development and cloud teams to deploy the software for clinical trials in parallel collaboration with the ML team.
 - **Frameworks:** Used React-Native, Redux, Node Package Manager (NPM), and Flutter.
 - **Technologies:** Firebase services and authentication, Firestore, Firebase storage, Cloud messaging, React Navigation, Audio-Video recording options, Node.js
 - Cloud Machine Learning & Full Stack Developer*
 - **Project:** Predicting Anemia among users by predicting the Vitamin D, Vitamin B-12, and Iron content from medical reports and images of the patients.
 - **Cloud Machine Learning:** Performed image masking and classification on medical documents.
 - **Front-end:** Created the entire application from scratch that involved functions like authentication, user profile, modification, uploading, and login APIs.
 - **Back-end:** Performed user management on firebase with firestore and connected it with front-end

Cambridge, UK
Mar'20 - Sep'20

May'20 - Jul'20
- **NGB Living**
Machine Learning Intern
 - **Project:** Designing an interactive chat assistant to automate the existing process for addressing customer queries.
 - **Dataset Creation:** Dataset was created using FAQs and queries that the company received through emails.
 - **Model Creation:** Built on TF-IDF vectorizers, GloVe Embeddings, Cosine Similarity, and Query Handler.
 - **Model Deployment:** Deployed the model on WordPress and Cloud-Run (GCP) server-less platform.
 - **Tech Stack:** HTML, CSS, JavaScript, Python, Flask, Cloud-Run (GCP), Git, Docker, gcloud-cli.

Berlin, DE
Jun'20 - Sep'20
- **iPing Data Labs**
Machine Learning & Computer Vision Intern
 - **Project:** Automating quality assurance for industry workers while ensuring safety paraphernalia and smooth execution of the industrial processes using Computer Vision.
 - **Computer Vision:** Performed object detection and logging time periods by deploying YOLO-V3 with transfer learning and fine tuning classifications for all layers of the network.
 - **Data Creation:** Generated the data, scraped and tested for redundancy from the industrial video scenarios using Python v3.7 and Google Colaboratory.
 - **Machine Learning:** Fine-tuned YOLO-V3 using pre-trained MS-COCO weights, modified for custom dataset.

Mumbai, IN
Dec'19 - Feb'20
- **Association of Computer Engineering Students**
Technical Advisor
 - **Competitive Programming:** Created a competitive programming environment in the college by organising several Hackathons and Webathons ranging for over 24-hours. Created CP problems for the hackathons.
 - **Technical Workshops:** Organized events and workshops based on tools and technologies like C, C++, Python, Java, R, Swift, PHP, and NetBeans, depending upon the students' profile and requirements.
 - **Technical Festivals:** Managed and organized technical festivals related to College and Department.

Mumbai, IN
Jun'19 - Aug'20

PUBLICATIONS

2020 Multimodal Depression Severity Prediction from medical bio-markers using Machine Learning Tools and Technologies (*Cornell University Press*)

SCHOLASTIC ACHIEVEMENTS

2019 Secured **First Rank** in an inter-departmental programming webathon among over 150 students involved in rigorous programming to create an application from scratch in 24 hours.

RELEVANT COURSEWORK & CERTIFICATIONS

Certified TensorFlow Developer

Certified AWS Professional

Analysis of Algorithms | Advanced Algorithms | Data Structures and Algorithms | Theory of Computer Science | Computer Organization and Architecture

PROJECTS

- **Performance testing using server-side-rendering:** Developed and deployed a server-side rendered blog website using Next.js with Prisma and MySQL integration. Tested the website's server response and performance in contrast to static, universal, and client-side rendered websites based on server-response time, DOM loading and processing, speed index, time to first byte, and final interactive time.
- **Multimodal Depression Severity Prediction:** Developed a cross-platform smartphone application using React-Native, Redux, and Node Package Manager (NPM). Used over 20 JavaScript packages necessary for the User Interface (UI) components, Firebase, and Firestore services. Structured the back-end using GCP for authentication, and back-end management of user services. Used Cloud Firestore for user data storage using its client library for Python v3.7 and Node.js for database interactions. One database was dedicated to the user profiles of the patients and doctors while the other database comprised only of the results.
- **Automatic Attendance Application:** Automate the attendance system in classrooms using ML and Computer Vision. Tech stack included React-Native using the DaaS firebase, Python v3.7, TensorFlow, Keras. Classroom images uploaded on the application by class supervisor are processed by the model to get outputs. Dataset was stored on Firestore and App engine for deploying the application on GCP, and employed Google Buckets for storing run-time dataset storage.
- **Women Safety Application:** SOS application for women safety built within 24 hours for a hackathon, secured the 1st place. Tech Stack included React-Native with DaaS firebase. An SOS alert (Call/Message) with their location is sent to the nearest helper like relatives, NGOs, Police Stations, or registered individuals.
- **Hospital Management System:** GUI based desktop application for Windows built upon Data Structures. Efficiency in time optimization through management of patient, hospital staff, and admin console.
- **Home Automation:** Used relay switches on arduino programming for automation tasks by providing access to WiFi and other features. Remote control for home appliances through mobile devices. Built voice control switch board for switching home appliances using C programming.
- **Aptitude Training:** Website for online aptitude training to prepare the students for job interviews by rigorous training and assessments. Tech stack included HTML5, CSS3, PHP.

EDUCATION

- **University of Mumbai** IND
Bachelor of Engineering | *Department of Computer Engineering* | *GPA: 8.33* *Aug'18 – May'22 (Expected)*

SKILLS AND INTERESTS

Domains Mobile App Development, Web Development, Machine Learning, Deep Learning, Computer Vision
Languages Python, Bash, Java, JavaScript, TypeScript, CSS3, SASS, C/C++, PHP
Frameworks React, Next.js, React Native, TensorFlow, Keras
Softwares Visual Studio Code, Android Studio, Tableau, Weka
Cloud Google Cloud Platform, Amazon Web Services(Certified)
Tools Node.js, MongoDB, Git, GitHub, L^AT_EX