

Anuj Sharma

Master in Technology & Development (M.Tech)

+91-8169038238

anujsharmaiitbombay2024@gmail.com

Anuj Sharma

https://github.com/Aisharma98

Education

Indian Institute of Technology (IIT), Bombay

Master of Technology & Development

Aug'22 – Jun'24

CGPA: 9.21/10

Thakur College of Engineering and Technology

Mechanical Engineering

Aug'16 – Jun'20

CGPA: 9.19/10

Work Experience

Indx.AI

Full stack Developer

July'24 – Jan'25

Mumbai

Real-Time Chat Platform with WebSocket Integration and Secure Message Storage

- Built **WebSocket** events for **real-time messaging** and **persistent history retrieval**, ensuring **zero message loss** during reconnect
- Streamlined messaging flow, reducing delivery **latency** by **25%**, supporting **50+** users with minimal performance impact
- Implemented JWT authentication** to securely manage user sessions, ensuring safe and seamless interaction with real-time chat
- Utilized **local storage** for reliable session persistence and seamless message broadcasting, boosting user retention by **15%**

Munsow Technology

ML intern / Computer Vision

Feb'24 – Jun'24

Remote

- Developed the web application using **Streamlit** library of **Python** for calculating the eye contact percent of the candidate
- Optimized eye contact detection using **Haar cascade** classifiers, achieving **95%** accuracy at **30** fps across **50+** interview sessions

Projects

Testing Importance of Mice Proteins for Down's Syndrome Treatment Using Classification Mar'23-Apr'23

- Performed EDA, including correlation analysis and iterative imputation, on over **70+** features and **760+** observations
- Evaluated Model using **SVM, RBF SVM, NN, and RF**, **RBF SVM** outperformed with an accuracy more than **90 %**
- Improved performance using **feature importance** and **Recursive feature cross-validation** with the highest test score of **0.96**

Movie Rating and Review Application with Role-based Accesses Control

Mar'24-Apr'24

- Created comprehensive **OpenAPI documentation** for streamlined **API consumption** and easy integration with third-party tools
- Integrated **Svelte** for **reactive UI**, optimizing user experience and enhancing **real-time updates** for **50+ active movie reviews**
- Implemented **role-based** features allowing admins to manage reviews and user accounts, ensuring platform integrity

A Comprehensive Book and Author Data Management Platform

Jul'24-Sep'24

- Integrated **PostgreSQL** with **Sequelize** to query book data establishing an efficient relational database model for scalability
- Implemented dynamic pagination for efficient book retrieval, **optimizing** load times by **20%** for **500+** book records.
- Designed and developed a user-friendly **front end** using **HTML, CSS**, and **Svelte** reactive UI for real-time updates of the book

Vulnerability Analysis to Predict the Risk of a Heatwave in Gujarat Using Real-Time Indicators Mar'23-Apr'23

- Created **hazard, exposure** and **adaptive capacity** indicators and identified **210+** vulnerable subdistricts
- Performed **multicollinearity** test to extract a dataset of **15** highly vulnerable Indicators from **50+** real-time indicators

Awards and Achievements

- Secured **5th** Rank among **160+** students in the Mechanical Engineering Department
- Awarded **1st** prize for the project entitled "**Animatronic Hand**" in the EXAULT competition
- Achieved **96.55** percentile in GATE 2022 examination among **89+ thousand** candidates

Skills and Expertise

- Programming Languages, Framework:** JavaScript, Node.js, Postgres, Express, HTML, CSS, Svelte, Git, REST API
- Tools & Libraries:** PyTorch, Tensorflow, Sklearn, Matplotlib, Numpy, Pandas, XGBoost, Google Colab, WebSocket, JWT
- Software:** Postman, QGIS, GeoDa, Tableau, Insomnia, STATA, PowerBI

Position of Responsibility

Operation and Management Head | IITB TUM SEED Center

Jun'23-jun'24

Expert Relation Coordinator | IITB Hult Prize Competition

Jan'24-Apr'24

Student Companion | Institute Student Companion Program, IIT Bombay

Jun'23-Apr'24