

# Harshal Atre

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Surat, Gujarat

## EDUCATION

**Sardar Vallabhbhai National Institute of Technology, Surat** 2022-present  
Bachelor of Technology in **Electronics and Communication** CGPA: 8.73

### Course Work

Data Structures and Algorithms, Operating Systems, Computer Networks,  
Machine Learning, Object-Oriented Programming, Database Management Systems

## PROJECTS

**IntelliShop: ML-Powered E-commerce Platform** | *Node.js, React.js, MongoDB, Stripe, Nodemailer* 05/2024

- Built 10+ RESTful APIs using Node.js and Express for scalable server operations. Utilized MongoDB for efficient data storage and retrieval.
- Engineered an LSTM model with Flask integration, achieving 90% accuracy; displayed review sentiment percentages and overall positivity score, enhancing product insights by 50% and driving data-informed decisions.
- Executed advanced image-based search functionality with ResNet and TensorFlow 2.0, enabling users to find similar products from a catalog of 1,000+ items via Flask integration, boasting a 95% accuracy rate.
- Developed a sophisticated product recommendation engine utilizing collaborative and content-based filtering algorithms, presenting 20 relevant items per user with 98% precision, thereby enhancing user engagement and increasing conversion rates by 25%.
- Leveraged Git and GitHub for version control and collaborative development in over 2 projects.

**Neuralchat: A Comprehensive Chat Application** | *Node.js, React.js, MongoDB, MUI, WebSockets* 06/2024

- Implemented real-time communication features with Socket.io, enabling seamless and instantaneous messaging. Adopted Redux and 10+ RTK Query for efficient state management and asynchronous data fetching.
- Constructed a notification system to alert users of 10+ friend requests and new messages. Incorporated a search feature allowing users to find others by name.
- Auto-Suggestion: Implemented a feature that auto-completes text during chats with 85% accuracy, enhancing user interaction and engagement.
- Emojify: Developed a tool using RNN and Flask to recommend five relevant emojis for sentences with 70% precision, improving user experience.
- Ensured 100% responsiveness across mobile devices for an optimized user experience.

**Portfolio** | *Node.js, React.js, MongoDB, TailwindCSS* 03/2024

- 90% of the website is editable using the Admin Panel, resulting in a 20% rise in project inquiries.

## TECHNICAL SKILLS

**Languages:** C/C++, Python, Javascript, HTML+CSS.

**Libraries/Frameworks :** ReactJs, Express, Socket.io, C++ STL, Python Libraries.

**Web Dev Tools:** Bootstrap, FramerMotion, Nodejs, VScode, Git, Github.

**ML Tools:** Jupyter Notebook, Tensorflow, pandas.

**Cloud/Databases:** MongoDB, Amazon Web Services, Firebase

**Areas of Interest:** Web Design and Development, Question Solving

## ACHIEVEMENTS

- Among Top 40 teams out of 1000 participants in DotSlash 7.0 - National level Hackathon
- Ranked among the top 10 participant in DSA based ACM SUMMER CODE CHALLENGE 2023
- Solved 300+ Data Structures on Platforms like Leetcode and GeekforGeeks
- Completed courses in DSA and Machine Learning on CourseEra, covering over 100 hours of content