

# Ansh Rai

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## Education

<b>Bachelor of Science in Data Science</b> IIT Madras	2024-2026 (Online)
<b>Bachelor of Technology in Computer Science Engineering</b> Maharaja Agrasen Institute of Technology, Delhi	2023-2027
<b>DL D.A.V Model School, Pitampura, Delhi - CBSE</b> Class 12th	2023

## Skills

- **Programming Languages:** Python, C++, Java, JavaScript, TypeScript
- **Web Development:** HTML, CSS, React, Node.js, Express.js, REST APIs, Bootstrap, Tailwind CSS
- **Databases:** MongoDB Atlas, SQL, DBMS
- **Tools & Platforms:** Git, GitHub, Postman, OpenAI API, HuggingFace, WebSockets, JWT, TensorFlow, Shell(Bash)
- **Deployment & APIs:** API Integration, JWT Auth, Secure Cookie Handling, Modular Routing
- **CS Fundamentals:** Data Structures, Algorithms, OOPS

## Experience

<b>Mobineers Info Systems - NLP &amp; Applied AI</b> [Summer Intern]	June 2025 – Present New Delhi
<ul style="list-style-type: none"><li>• Developed <b>AutoClassify</b>, an unsupervised text classification pipeline using HuggingFace Transformers to automatically categorize thousands of customer complaints (billing, supply, metering), optimizing downstream support workflows.</li><li>• Built <b>SmartFAQ Bot</b>, an interactive Python-based chatbot integrating API routing logic to dynamically resolve user queries (math equations, BMI checks, spell correction) based on intent and input patterns.</li><li>• Proposed and scoped <b>EmotiTrack</b>, a real-time audio sentiment analysis system to detect and monitor customer satisfaction from start to end of support calls, aimed at automating customer experience metrics.</li></ul>	
<b>Personify / 1Stop.ai - Artificial Intelligence</b> [Mentorship Intern]	March 2025 – April 2025 (Remote)
<ul style="list-style-type: none"><li>• Engineered a <b>text classification model</b> using TensorFlow and pre-trained embeddings (via TensorFlow Hub), achieving high-accuracy sentiment detection on textual datasets using transfer learning.</li><li>• Trained and evaluated an <b>object detection model</b> using CNNs in TensorFlow with custom-annotated image data to detect multiple classes with high precision.</li><li>• Deployed a <b>landmark classification model</b> using VGG-19, showcasing end-to-end deep learning pipeline integration across OpenCV (data handling), TensorFlow (training), and Matplotlib (visualization).</li></ul>	

## Projects

<b>AI Chatbot : J.A.C.K.</b> (Just a clever knowledge bot)   <a href="#">Github link</a>	June 2025
<ul style="list-style-type: none"><li>• Techstack - MERN, TypeScript, OpenAI API</li><li>• Built a full-stack AI chatbot using OpenAI's API for dynamic conversations. Implemented JWT-based authentication, secure cookies, and persistent chat history with MongoDB Atlas.</li></ul>	
<b>Contact Manager</b>   <a href="#">Github link</a>	April 2025
<ul style="list-style-type: none"><li>• Techstack - Node.js, Express.js, MongoDB</li><li>• Designed a secure RESTful API with full CRUD, modular routing, env-based config, and error handling. Documented endpoints for seamless integration and used Git/GitHub for version control.</li></ul>	
<b>Spotify-Inspired Full-Stack Music Platform</b>   <a href="#">Github link</a>	May 2025
<ul style="list-style-type: none"><li>• Techstack - MERN, WebSockets, JWT</li><li>• Built a Spotify-inspired full-stack responsive music platform with JWT auth, playlist features, and a responsive UI. Added original features like <i>real-time chat (WebSockets)</i> and an admin dashboard for content/user management.</li></ul>	

## Achievements

**IITM Foundation level course certification**  
**Finalist** , MindSync Ideathon – Certificate of Appreciation  
**Certificate of Completion** – Web Development Course, Apna-College