



RONAK TALAVIYA

AI-Powered Full Stack Developer

+91 92656-77161

ronaktalaviya51@gmail.com

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Ronak501

ronaktalaviya.me

Leetcode

ABOUT ME

Computer Engineering student specializing in Full-Stack Development and AI-driven applications. Experienced in building scalable web platforms and integrating machine learning models into real-world systems. Passionate about Agentic AI, real-time analytics, and intelligent automation.

EDUCATION

2023 - 2027 Bachelor of Technology in Computer Science & Engineering
Currently pursuing Sarvajanik College of Engineering & Technology (SCET), Surat

PUBLICATIONS

- Robust Self-Supervised Learning for Infant Cry Detection** in Open Cross-Population Acoustic Environments — ICSMACS, 2026 (Accepted)
- AttCry: Layer-Wise SSL with Attention for Robust Cry Classification** APSIPA, 2026 (Under Review)
- Emotionally Intelligent Wearables: AI-Driven Adaptive Interfaces for Personalized Healthcare** Book Chapter in Cloud-Connected Wearables for Healthcare Analytics [Bentham Science Publishers], 2025/2026

SKILLS

- Languages:** JavaScript, TypeScript, Python, C/C++
- Data Science:** Data Analytics, Data Science, Data Visualization Using Tableau
- Frontend:** React.js, Next.js, Vue.js, AngularJS, HTML, CSS
- Backend:** Node.js, Express.js, Flask, Django
- AI / ML:** Machine Learning, NLP, RAG, Agentic AI, Computer Vision, Langgraph
- Database:** MongoDB, PostgreSQL, Supabase, SQL, Vector
- Tools & Technologies:** Git, REST APIs, Automation, DevOps, N8N, Model Deployment
- Advanced AI:** Deep Learning, Large Language Models, Generative AI, ViT, MCP
- Core Skills:** Problem Solving, Project Management, System Design

ACHIEVEMENTS & GRANTS

90,000 Funding 2025	Vision Sentinal – AI Event Safety Platform Designed real-time crowd monitoring and predictive analytics system
137,000 Funding 2026	Swachh Sense – Smart Waste Management System Built AI + IoT solution for waste classification and smart monitoring
60,000 Funding 2026	TransitGuard – AI-Powered Public Transport Safety System Developed computer vision system for anomaly detection in surveillance

FEATURED PROJECTS

- **FactCheck AI – AI-Powered Misinformation Detection Platform | 2025**
Built NLP-based system to verify claims using RAG and vector search
- **AI Research Agent – Agentic AI System | 2026**
Created autonomous AI agent using RAG and workflow automation (n8n)
- **Smart RMA – E-commerce Return System (Internship) | 2025**
Developed full-stack return management system with backend APIs
- **BolnaSeekho – AI-Powered Learning Platform | 2026**
Developed an AI-based English learning platform focused on interactive student learning.

PROJECT CREDITS

- BolnaSeekho:** ₹1,50,000 funding from Servam AI to support the development of BolnaSeekho, an AI-powered learning platform focused on personalized and interactive education.
- AWS portfolio credits received to support cloud infrastructure and deployment for the project.
- TechSodh:** ₹1,50,000 funding received for TechSodh to support development and technology initiatives.
- US\$2,000 Google Cloud credits received to support AI, cloud computing, and application development.
 - US\$500 MongoDB credits received to support database infrastructure and scalable application development.
 - US\$200 Google Skills credits received for cloud and AI learning/development.

INTERNSHIP

Web Application Developer Intern 2025 Surat, India • Developed a web application for task management, streamlining workflows and improving operational efficiency.	TMC Consultancy
Web Application Developer Intern 2025 Surat, India • Developed a return e-commerce platform to streamline product returns, refunds, and exchanges, improving operational efficiency and user experience over an 8-month internship.	XAlpha
Web Application Developer Intern 2026 Surat, India • Developed and maintained scalable web applications, enhancing user experience and optimizing performance across multiple modules during an 3-month internship.	EdVerb

ACTIVITIES

- Hackathons & Competitions**
- Organized and conducted the college-level hackathon “**Scetathon 2K26**” as the **Coordinator**, leading planning, team management, and successful execution of the event.
 - **Club Secretary** – Full Stack Web Development Club, SCET (2025 – 2026); organized hackathons and conducted web development sessions for 500+ students.
 - Participated in the NASA Space Apps Challenge, developing an interactive Orrery web application to simulate planetary motion in a team-based hackathon.
 - Built AI and full-stack solutions under tight deadlines across multiple hackathons, demonstrating strong problem-solving and rapid development skills.
- Cultural & Leadership**
- Serving SCET College as **Cultural Secretary**(2025 – 2026), leading and managing all cultural activities and student engagement initiatives.
 - Organized and successfully executed major college events including Exuberance and Verve, handling planning, coordination, and team management.
 - Led cross-functional teams to deliver large-scale events efficiently, ensuring high participation and smooth execution.
 - Showcased leadership, event management, and coordination skills while working with diverse teams and stakeholders.
 - Actively contributed to SCET Tech Fest “Shitij” by participating in and supporting innovative technical project exhibitions.