

# Komal Kasat

Mumbai, Maharashtra, India

komalkasat74653@gmail.com — +91-9420582836

linkedin.com/in/komal-kasat — github.com/Komalkasat09

## Education

<b>SVKM's Dwarkadas J. Sanghvi College of Engineering</b> , Mumbai	2023–2027
B.Tech. in Artificial Intelligence & Data Science	CGPA: 8.42 (Sem 1–5)
<b>DNCVP's College of Science and Commerce</b> , Jalgaon	2021–2023
Higher Secondary Certificate (Science)	
<b>Rustomjie International School</b> , Jalgaon	2021
Secondary School Certificate	

## Experience / Leadership

<b>Web Development Mentor, Infomatrix Student Chapter</b>	Aug 2025 – Present
DJ Sanghvi College of Engineering	
• Mentored students in React, Next.js, and REST APIs through hands-on sessions, code reviews, and project guidance.	
• Led technical planning for events and coding sprints, emphasizing clean architecture and scalable UI design.	
<b>Creatives Head, NSDC Committee</b>	Aug 2025 – Present
DJ Sanghvi College of Engineering	
• Headed design and development of digital assets and event pages while coordinating branding across teams.	
<b>Co-Committee Member, SigAI</b>	Aug 2024 – Present
DJ Sanghvi College of Engineering	
• Organized AI/ML workshops and hackathons; supported content curation and technical logistics.	

## Projects

<b>SkillSphere – Smart Career Guidance Platform</b>	Next.js, FastAPI, MongoDB
• Built an AI-powered career platform with resume generation, real-time previews, PDF export, and interview preparation.	
• Implemented multi-step forms, customizable templates, progress saving, and AI-driven interview feedback.	
<b>AI-Driven Internship Finder</b>	Next.js, ML, Tailwind
• Developed an internship recommendation system using skill-based matching, resume analysis, and AI ranking.	
• Integrated external APIs with dashboards for tracking and filtering real-time opportunities.	
<b>Misinformation Detection Platform</b>	Agentic AI, FastAPI, MongoDB
• Designed a 20+ agent pipeline for fake news and deepfake detection with trend analysis and credibility scoring.	
• Built a WhatsApp fact-checking bot and real-time global visualization using a 3D globe interface.	
<b>AI-Powered Sign Language Translator</b>	Next.js, FastAPI, ML
• Built real-time sign-to-text, text-to-sign, and speech-to-sign translation with live transcripts.	
• Added AI calling agent, learning modules, and quizzes for inclusive communication.	

## Research

<b>Interpretable Physics Reasoning in Vision-Language Models</b>	Aug 2025 – Oct 2025
arXiv:2509.08270 — Hugging Face Papers	

- Proposed a taxonomy for physics reasoning performance; analyzed interpretability and failure modes.

## Achievements

2x Hackathon Winner — Team Lead and Full-Stack Developer

## Technical Skills

**Languages:** Python, C, JavaScript, SQL

**Web/Backend:** React.js, Next.js, Node.js, FastAPI, REST APIs

**AI/ML:** ML, DL, Generative AI, Agentic AI

**Databases/Tools:** MongoDB, MySQL, SQLite, Git, GitHub, Figma, Tailwind, shadcn/ui

## Certifications

HTML/CSS/Bootstrap (Static & Dynamic) — NextWave — Micro-Internship — Goldman Sachs —  
SQLite — NextWave — Machine Learning — Unacademy