

Mahesh Kumar Kolli

B.Tech Computer Science & Engineering — Hyderabad, India

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PROFESSIONAL OVERVIEW

3rd year CSE student at VNR VJIET with real experience shipping full-stack apps, AI-integrated systems, and cloud pipelines. Have worked across internships, hackathons, and open-source projects — always in fast-paced, team-driven setups. Comfortable with the full development cycle from design to deployment. Looking to bring practical engineering skills and grow through real-time project challenges in a digital transformation-focused engineering organization.

EDUCATION

B.Tech in Computer Science & Engineering		CGPA: 9.00 / 10.0
VNR Vignana Jyothi Institute of Engineering & Technology (JNTUH), Hyderabad		2023 – 2027
Intermediate (MPC, APBIE)	Ascent Junior College	2021 – 2023 94.1%
Secondary Education (CBSE)	Nava Bharat Public School	2021 85%

TECHNICAL SKILLS

Languages:	Python, JavaScript, TypeScript, C, C++, Java, Go (Golang), Rust
Frameworks:	React.js, Next.js, React Native, Node.js, Express.js, FastAPI, LangChain, Phaser, Tailwind CSS
Databases:	MongoDB, PostgreSQL, MySQL, Prisma ORM, Supabase, Firebase
Cloud & DevOps:	AWS (S3, EC2), Docker, GitHub Actions (CI/CD), Cloudinary, Linux (Ubuntu), Git/Github, Claude, Copilot
Domains:	Full Stack Development, Android/iOS Development, Data Engineering, Data Science & AI/ML, UI/UX
Concepts:	REST APIs, WebRTC, Socket.IO, RAG, Vector Search, Semantic Search, Clustering, Agile/Scrum, Application Security, Big Data Pipelines, Postman
Soft Skills:	Team Collaboration, Problem Solving, Communication, Adaptability, Decisiveness, Resilience, Attention to Detail

EXPERIENCE

Industry Based Trainee – VNRVJIET July 2025 – Sept 2025

- Built an AI-powered mock interview platform with face emotion detection, resume parsing, and structured feedback workflows.
- Developed detection and parsing pipelines in Python/FastAPI; Golang backend for high-concurrency traffic; Supabase for auth and storage; Next.js frontend with real-time feedback dashboards.

Stack: Next.js, Golang, FastAPI, Python, Supabase, React Native

Open Source Contributor – Indian High Court Judgments Project Sept 2025 – Nov 2025

- Automated ingestion and pipeline maintenance for a public Indian High Court judgments repository.
- Wrote Python scripts for parsing and transforming large legal datasets; scheduled via GitHub Actions for periodic updates; integrated AWS S3 for document storage.

Stack: Python, AWS S3, GitHub Actions

AI & Data Analytics Intern – AICTE & Edunet Foundation Oct 2025 – Nov 2025

- 4-week program covering AI/ML, data preprocessing, and analytics on green technology applications.
- Analyzed large-scale datasets applying preprocessing, feature engineering, and Big Data pipeline patterns aligned with production-quality control standards.

Stack: Python, Pandas, Scikit-learn, Matplotlib, Jupyter Notebooks

PROJECTS

AI ResearchHub – AI Research Hub & Paper Curation Workspace

[Live Demo](#) - [GitHub](#)

- Production-deployed research hub for organizing, tracking, and sharing AI research — curate papers/resources, maintain topic-wise notes, and centralize experiments into a single searchable repository.
- Structured research areas into clear categories with concise summaries; collected papers, blogs, and tools with lightweight metadata (tags/notes) to support quick comparison and semantic search.

Stack: Next.js, FastAPI, MongoDB, Ollama, Pinecone, FAISS, Supabase, Gemini API

Metaverse – 2D Real-Time Virtual Collaboration Workspace

[Live Demo](#) - [GitHub](#)

- Multiplayer 2D virtual office where avatars navigate tile-based rooms and trigger proximity-based voice/video calls.
- Rendered world using Phaser with collision detection and proximity zones; real-time avatar state sync via Socket.IO; WebRTC peer-to-peer streams activate automatically on proximity detection.

Stack: Next.js, Phaser, Node.js, WebRTC, Socket.IO, Express.js

SEFS – Semantic Entropy File System

[GitHub](#)

- Self-organising file manager that clusters files by semantic meaning and physically moves them into LLM-named folders on disk, reflected live in Finder/Explorer.
- Extracted content from 140+ file types, embedded via Ollama/OpenAI, clustered with HDBSCAN + UMAP; watchdog re-triggers pipeline on every file event; built semantic search, RAG chatbot, and live force-graph + spatial scatter visualisation over WebSocket.

Stack: Python, FastAPI, HDBSCAN, UMAP, Ollama, OpenAI, React 19, TypeScript, Tauri v2 (Rust), SQLite, D3.js

ACHIEVEMENTS & CERTIFICATIONS

- **HackWithAI 2026** — **Winner** — Telangana's Largest AI Hackathon ([Certificate](#))
- **Zignasa Hackathon 2025** — **Winner** — Inter-College Competitive Hackathon ([Certificate](#))
- **Smart Interviews** — **Diamond Certified** — Global Rank: 380 ([Certificate](#))
- **NPTEL: Programming in Modern C++** (IIT Kharagpur) ([Certificate](#)) , **Cloud Computing** ([Certificate](#))
- **Microsoft: Cyber Suraksha** ([Certificate](#)) — input validation, secure auth flows, and API hardening
- **Hacktoberfest 2024** — 4 merged pull requests ([Badge](#))
- **Chess** — District Under-19 Prize Winner

CODING PROFILES

[GitHub: kmahesh18](#) [</>](#) [LeetCode: _mahesh18](#) [</>](#) [CodeChef: kmahesh_18](#) [</>](#) [Codeforces: maheshpro](#)

COMMUNITY & LEADERSHIP

- **Core Member, Turing Hut Coding Club** — **VNR VJIET**: Organised technical workshops and competitive programming events; mentored juniors on web development and DSA - [Certificate](#)
- **Technical Blog** at blogs.maheshdev.tech — writing on full-stack development, AI/ML, and software engineering

STRENGTHS, HOBBIES AND LANGUAGES

- **Strengths:** Problem Solving, Quick Learning, Team Collaboration, Adaptability, Resilience, Attention to Detail
- **Hobbies:** Competitive Programming, Chess, Photography, Reading Tech Blogs, Open Source, Music
- **Languages:** English, Hindi, Telugu (Native)

DECLARATION

I hereby declare that the above information is true to the best of my knowledge.

- *Mahesh Kumar Kolli*

Place: Hyderabad

Date: 27-03-2026