

KATHULA SRI RAGHAVI

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SUMMARY

Aspiring Software Engineer & AI Enthusiast with expertise in web development, machine learning, and scalable applications. Proficient in Data Structures & Algorithms, deploying ML models, and contributing to open-source projects.

EDUCATION

Bachelor of CSE - Data Science, B V Raju Institute of Technology, Narsapur 2022 - 2026
Relevant Coursework: Data Structures and Algorithms, DBMS, ML, Operating Systems, Cloud and Big Data.
CGPA - 9.35 (Top 1%)

EXPERIENCE

SDE - Intern Feb 2025 - Present
Blue Cloud Softech Solutions Hyderabad, India

- Built a **Flask-based web app** integrating **FDA and PubChem APIs** to visualize drug data for **20+ diseases**.
- Achieved **90% faster load times** via **caching (pickle, cachetools)** and **async data fetching** with aiohttp.
- Designed an **interactive frontend** with **HTML, CSS, and JavaScript**, incorporating **lazy loading, progressive rendering**, and custom navigation.
- Deployed ML models on **TorchDrug** for **LogP prediction** and **breast cancer target identification**.
- Developed an interactive tool to visualize **2D/3D molecular structures** with **heatmap overlays**.
- Built a domain-specific **RAG pipeline** using a fine-tuned LLaMA3-8B model, incorporating OCR-based PDF parsing, semantic chunking, FAISS vector search, and CrossEncoder reranking for precise retrieval and generation.

PROJECTS

Career Catalyst | **Tech:** TypeScript, Node.js, Flask, MongoDB, Gemini API. [GitHub](#) | [Live](#)
Designed a **full-stack platform** with **Gemini API** for **resume analysis** (ATS scores, skill matching) and **LinkedIn scraping** for job matching. Built **dashboards** for job listings and **NLP-based** resume-job matching.

Farm2Fork - Sustainable Supply Chain | **Tech:** React, Node.js, Express.js, MongoDB, Pinata (IPFS). [GitHub](#)
Developed a **decentralized platform** using **Pinata (IPFS)** for **transparent data storage**. Created **farmer, distributor, and retailer dashboards** for crop listing, order management, and **QR-based traceability**. Integrated **sustainability scoring** for eco-friendly practices.

Comprehensive Study Planner | **Tech:** React, Node.js, Express.js, MongoDB, JWT, Socket.io, Multer. [GitHub](#)
Built a **full-stack web app** for **collaborative study planning** with **JWT authentication** and **real-time messaging** via Socket.io. Added **personalized insights** and **deadline notifications**, cutting missed deadlines by 20%. Enabled **secure file uploads** with Multer.

HoloQuest | **Tech:** React, Node.js, Three.js, MongoDB, DQN. [GitHub](#) | [Live](#)
Built a **web-based 3D escape room** with **Three.js** and **DQN** for **AI-adaptive puzzles**. Added **gesture/voice controls** using HandTrack.js, Web Speech API, and **Node.js** backend for **scalable performance**.

SKILLS SUMMARY

Technical Skills	Programming: Languages - Java, Python, SQL; Object-Oriented, Data Structures Web Development: HTML, CSS, JS, Bootstrap, ReactJs, NodeJS, ExpressJs, MongoDB Data Science: NumPy, Pandas, Scikit-learn, NLTK, SpaCy, Matplotlib Tools: Git, GitHub, Jupyter Notebook, Power BI, Google Colab
Soft Skills	Problem Solving, Team Collaboration, Time Management, Communication

ACHIEVEMENTS

- **Tech Savishkar 3.0** – 2nd Prize for *Farm2Fork* (Blockchain & IPFS) at National level hackathon.
- **Code Breakers** – **3rd place** in a multi-round coding competition involving **aptitude, debugging, and coding**.
- **Tech Tussle** – Ranked **4th** in a two-round competition featuring MCQs and coding challenges.
- **GirlScript Summer of Code** – Ranked **122** among thousands of open-source contributors globally.
- **Certificate of Academic Excellence** – Awarded for securing the highest academic performance.
- **Branch Topper** – 3 consecutive semesters; College-wide 2nd rank (1st sem).
- **NxtWave NSDC Fellowship** – Selected for prestigious fellowship.

CERTIFICATIONS

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| • Google - AIML Virtual Internship, 2024 | • Oracle - Java Fundamentals, 2024 |
| • Postman - API Fundamentals Student Expert, 2024 | • NPTEL - Python for Data Science (Top 2%), 2023 |
| • NPTEL - Problem Solving Through C, 2023 | • IBM SkillsBuild - Artificial Intelligence, 2023 |