

Chetan Laxminath Kolakanti

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PROFILE SUMMARY

Aspiring software engineer with a strong foundation in computer science principles and a keen interest in building high-performance systems. Highly motivated to solve complex problems and contribute to robust, scalable solutions in a fast-paced development environment.

EDUCATION

- **Bachelor of Technology (B.Tech) - Computer Science (CSE)** 2022-2026
Keshav Memorial Institute of Technology - Hyderabad, India CGPA: 8.51/10
- **Higher secondary education - MPC** 2020-2022
New Vision Junior College - Khammam, India Percentage: 97.5
- **CBSE (Central Board of Secondary Education)** 2015-2020
Jawahar Navodaya Vidyalaya, Palair - Khammam, India Percentage: 90.4

PROJECTS

- **ME - AI-Driven 3D Medical Imaging and Thyroid Diagnostic System** Ongoing
An AI-driven MERN based health platform that performs brain tumor segmentation with 3D visualization and thyroid disorder prediction, diagnosis, and personalized dietary guidance.
 - * Implemented deep learning-based brain tumor segmentation using TensorFlow and Keras, with 3D visualization of MRI scans via OpenCV, and Matplotlib to support medical analysis using MERN stack.
 - * Developed a thyroid disorder prediction system by analyzing clinical test data and performing symptom-based assessment using a Voting Classifier, enabling real-time diagnosis and proactive early screening support.
- **AI-Powered Drone for Automatic Human Detection and Payload Dropping** 2024
A system for payload dropping using object recognition from drones - specially designed for disaster management
 - * Tools & technologies used: YOLO, MERN, Drone, Jetson Xavier
 - * Developed an AI-based drone system capable of detecting humans from 50 meters above ground at a slanted angle and automatically dropping payloads near them, aiding in disaster rescue operations.
- **SummarizeX: Fast API-Powered Text Summarization Engine** 2023
Built a lightweight and scalable text summarization engine using FastAPI and state-of-the-art NLP models.
 - * Tools & technologies used: Python, FastAPI, Hugging Face Transformers, Docker, Git.
 - * Designed with standard NLP and backend practices to ensure quick deployment and ease of integration.

TECHNICAL SKILLS AND SPECIALIZATIONS

Languages: Java, Python, JavaScript, C++
Developer Tools: React.js, Node.js, CSS, HTML
Frameworks/Libraries: Bootstrap, Express.js, LangChain, TensorFlow, Keras, YOLO
Databases: SQL, MongoDB
Technologies & Tools: NLP, LLM, Git, GitHub, AWS, Docker, Flask, OpenCV, Nibabel, Matplotlib, K8s
Developing Competencies: Artificial Intelligence and Machine Learning (AI/ML)
Courseworks: Computer Networks, OS, Data Structures, Object Oriented Programming.

ACHIEVEMENTS

- **Hackfiniti 2025 – 3rd Prize Winner** BVRIT – 24-hour National Level Hackathon
- **Level 2 Qualifier – Bank of Baroda Hackathon** - In collaboration with Microsoft Azure; selected among top 300 out of 21,000 participants
- **Build with India – HackWithIndia 2024** Ranked among the top 5,000 teams out of 25,000+ teams for exceptional performance and innovation during the nationwide hackathon; finale held at Google Office.
- Solved more 700 questions on LeetCode platform along with some solutions posted and have a highest contest rating of 1805.