

# Jatothu Vinesh

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## SUMMARY

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AI/ML undergraduate with experience in Python and machine learning. Worked on projects in computer vision, code analysis, and authentication systems, and completed certifications in Generative AI, Data Science, and Python. Seeking opportunities to apply skills in building practical, real-world solutions.

## PROJECTS

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Built AI/ML-based systems including computer vision, code analysis, and authentication applications using backend APIs and databases.

### HygieneVision | *YOLOv8, FastAPI* | [GitHub](#)

- Built a real-time hygiene monitoring system using YOLOv8 for detecting safety violations.
- Developed an OpenCV-based inference pipeline with improved detection using spatial analysis techniques.
- Designed REST APIs with FastAPI and integrated MongoDB for event logging and analytics.

### CodeSage | *RAG, FAISS* | [GitHub](#)

- Developed a code intelligence system using RAG for natural language querying over large codebases.
- Implemented FAISS-based vector search and AST-based static analysis for complexity and code quality evaluation.
- Built LLM-powered modules for bug detection and automated code refactoring with optimized outputs.

### Sentinel Face Secure | *MobileNetV2, FastAPI* | [GitHub](#)

- Built a facial authentication system using MobileNetV2 for efficient feature extraction on edge devices.
- Implemented multi-modal liveness detection (blink, motion, head movement) to prevent spoofing attacks.
- Developed FastAPI backend with secure encrypted embeddings storage (AES-128) and MongoDB integration.

## TECHNICAL SKILLS

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**Programming Languages:** Python, Java, C/C++

**AI/ML & Computer Vision:** CNN, YOLOv8, MobileNetV2, OpenCV, NLP, Scikit-learn

**Backend & APIs:** FastAPI, REST APIs

**Databases:** MongoDB, SQL

**Tools & Technologies:** Git, GitHub, FAISS, NetworkX, AST

**Web Technologies:** HTML, CSS, JavaScript

## EDUCATION

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### CMR College of Engineering & Technology

*B.Tech in Artificial Intelligence & Machine Learning CGPA: 8.21*

Medchal, Hyderabad

*Nov 2022 – July 2026*

### Sri Chaitanya Junior Kalasala

*Intermediate (MPC) Percentage: 99%*

Gudimalkapur, Hyderabad

*2019 – 2021*

### Aryabhatta High School

*SSC CGPA: 9.8*

Thorrur, Mahabubabad

*2018 – 2019*

## ACHIEVEMENTS

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### Generative AI Virtual Internship | *Google Cloud, AICTE EduSkills*

- Completed a 10-week Generative AI internship, working with AI models and cloud-based tools on real-world applications.

### Competitive Programming | *LeetCode, CodeChef, HackerRank*

- Solved 400+ coding challenges, strengthening problem-solving skills and algorithmic thinking.
- Profiles: [LeetCode](#) | [CodeChef](#) | [HackerRank](#)

## CERTIFICATES

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### Salesforce Certified Agentforce Specialist

- Salesforce certification in AI agent design, configuration, automation, and deployment using Agentforce platform.

### Cisco Networking Academy Certifications

- Python Essentials 2 – Python programming, debugging, scripting.
- Introduction to Data Science – Data analytics fundamentals, AI/ML data concepts.

### NIELIT CABA Certification (Govt. of India)

- Certified in Computer Applications and Business Accounting (CABA) by NIELIT, Ministry of Electronics and Information Technology.