

SRI KRISHNA CHAITANYA TALASILA

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Education

B.Tech in CSE, VNR VJIET CGPA: 8.54 (Pursuing 7th Sem)	2022 - Present
Intermediate, Sri Chaitanya College Percentage: 97.1%	2020 - 2022
10th, Sri Chaitanya School GPA: 10.0	2019 - 2020

Experience

Chipweave Technologies – R&D Intern (AI/Computer Vision) Jun 2025 – Aug 2025

- Proposed a real-time vision-based welding quality monitoring methodology, which is currently under development by the company.
- Built a YOLOv8-based prototype to detect external welding defects, validating the proposed research framework.
- Contributed to AI-driven automation by integrating defect detection and monitoring concepts into industrial welding workflows.

Skills

Programming Languages: Python, Java, C

Core Concepts: Object-Oriented Programming (OOPs), Data Structures and Algorithms (DSA)

Machine Learning: Scikit-learn, TensorFlow, Transfer Learning

Generative AI: Retrieval-Augmented Generation (RAG), Context Engineering, LangChain

Databases & Tools: MySQL, Git

Projects

InsureSense – AI Insurance Assistant | Developer | Python, LangChain, Google Gemini, FAISS

- Developed an AI-powered assistant that reads health insurance policy PDFs and answers user queries with clause-aware, page-number-referenced responses using Retrieval-Augmented Generation (RAG).
- Implemented semantic chunking, vector embeddings, and FAISS-based retrieval to accurately map policy clauses, and built an automated risk-assessment module that analyzes exclusions and coverage to generate risk scores and actionable insights.

AgriGen | AI Developer | XGBoost, Python

- Built a backend pipeline to analyze drone and satellite imagery using vegetation indices (NDVI, NDRE, GNDVI, NDWI) for crop health monitoring.
- Trained and deployed an XGBoost model to predict crop health, incorporating field segmentation and time-series trend analysis.
- Generated health maps and basic recommendations to support irrigation and nutrient management decisions in precision agriculture.

Plastic Resin Classification | ML Developer | Python, Vision Transformer (ViT), PyTorch

- Built an image classification pipeline using a Vision Transformer (ViT) to identify and categorize plastic resin types from product labels.
- Preprocessed resin label datasets and fine-tuned ViT for accurate multi-class classification.
- Evaluated model performance using precision, recall, and F1-score; achieved 91% accuracy despite limited labeled data.

Co-Curricular Activities

- Finalist in Hack4SDG at IIT Hyderabad. Designed a sustainable AI tool using satellite data and remote sensing to help farmers monitor field conditions. Showcased teamwork, domain adaptation, and impactful AI design.
- Represented college at the national finals of the Hult Prize held at IIT Bombay, pitching innovative ideas and showcasing entrepreneurial problem-solving.
- Finalist in Technovista (VNR VJIET) for creating an AI-based plant disease detection model to improve agricultural management. Demonstrated adaptability in new AI tools and domain-specific application.
- Advanced to the final round of the Turing Cup coding contest, ranking in the top 25% by solving competitive algorithmic problems with optimized Python solutions.

Extracurricular Activities

- Edited a short film, enhancing visual storytelling through smooth transitions and cohesive narrative design.
- Organized and contributed as an active member of the Computer Society of India (CSI), managing tech events and participating in peer knowledge exchange.
- Regularly participated in technical workshops, seminars, and hackathons to stay current with emerging technologies.