

# SRI KRISHNA CHAITANYA TALASILA

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## Education

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

## Experience

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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

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**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

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### 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**

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- 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 VJET) 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**

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- 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.