**BYSANI VENKAT SAI SABARISH**

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**Career Summary**

Dedicated and ambitious B.Tech student in Computer Science & Engineering (AI & ML) from KG Reddy College, eager to gain practical experience through internships. Passionate about AI-driven applications, full-stack development, and backend technologies, aiming to develop industry-relevant expertise and secure a role in a top MNC.

**Education**

**Bachelor of Technology (B.Tech)** – Computer Science and Engineering (AI & ML)  
KG Reddy College of Engineering and Technology | *Expected Graduation: June 2025*

**Technical Skills**

* **Programming Languages:** Python, C, Java (Basics)
* **Frameworks & Technologies:** HTML, CSS, JavaScript, Streamlit, FastAPI
* **Databases:** MySQL, MongoDB (Basics)
* **Soft Skills:** Team Management, Problem-Solving, Time Management, Handling Pressure Situations

**Academic Projects**

**CineHeist** *(Sept 2024 – Nov 2024)*  
Developed a movie recommendation system that suggests films based on the synopsis or user prompts.

* Implemented AI logic for similarity search using TF-IDF vectorization, Generative AI, and ML algorithms.
* Designed and developed the frontend using Streamlit for an interactive user experience.

**Academic Success Predictor** *(Oct 2024 – Nov 2024)*  
Designed an ML model to predict student pass rates and promotion percentages.

* Implemented K-Nearest Neighbors (KNN) algorithm for accurate student performance predictions.
* Focused on prediction logic development, with the website/product development planned for a future phase.

**Smart Serve** *(Mar 11, 2025 – Mar 12, 2025)*  
Developed a comprehensive food waste management system featuring five core modules: Home, AI Food Waste Predictor, Smart Inventory, Food Donation, and Real-Time Leaderboard.

* Implemented an intelligent inventory system to track expiry dates and automatically move items to the donation page if nearing expiry.
* Integrated a real-time leaderboard to incentivize food donations by awarding points for contributions, promoting a competitive and sustainable environment.
* Used Streamlit and Python to build an interactive and responsive interface.
* Acted as the developer and team leader, coordinating feature integration and system architecture.

**Working Projects**

**AI Discharge Summary Generator** *(Feb 2025 – Present)*  
Developing an AI-powered system that automatically generates hospital discharge summaries using Electronic Health Records (EHR).

* Uses patient EHR data to produce comprehensive and structured discharge notes.
* Aims to reduce manual documentation time for medical staff and improve summary consistency.
* Built using Python and NLP-based frameworks to extract and format critical health information.
* Currently leading the development and testing phases of the project.

**YouTube Video Extraction and Questionnaire System** *(Apr 2025 – Present)*  
Building a question-answering system that processes YouTube video content to generate insightful responses.

* Extracts audio and video from YouTube links, transcribes the audio into text, and performs chunking for contextual segmentation.
* Implements a Retrieval-Augmented Generation (RAG) pipeline to answer user queries based on the transcribed content.
* Integrates vector embeddings, similarity search, and LLMs to provide context-aware answers.
* Developed using Python, Sentence Transformers, and vector databases like FAISS or ChromaDB.

**Custom Pizza Generation and Delivery App** *(Mar 2025 – Present)*  
Creating a customizable pizza ordering system that lets users design pizzas based on personal preferences and dietary restrictions.

* Features an interactive UI for custom selection of crust, toppings, sauces, and portion sizes.
* Includes real-time order tracking, pricing updates, and delivery route management.
* Built using Python and web development technologies with a focus on modular and user-friendly architecture.
* Leading both backend logic and UI development.

**Certifications**

* Python Bootcamp – I&T Labs *(Nov 2023)*
* Python Full Stack Development – I&T Labs *(Dec 2023)*
* Python for Everybody (Getting Started with Python) – Coursera *(May 2023)*
* Microsoft Office 365 Essential Skills – Udemy *(Jan 2023)*
* Oracle APEX Professional (2025) – Udemy *(Nov 2024)*
* Learn Oracle Cloud Infrastructure Fundamentals – Udemy *(Nov 2024)*

**Career Interests**

Seeking internships in Software Development, AI & Machine Learning, Full Stack Development, and related fields to apply technical skills and gain hands-on experience. Passionate about AI-driven applications, backend development, and problem-solving.