HEMANTH KUMAR YANDA

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SKILLS

- **Machine Learning & AI:** Supervised Learning, Support Vector Machines (SVM), NLP
- **Data Engineering:** Data Pre-processing, Feature Engineering
- **Programming:** Python, C, C++, SQL, JS, Data Structures & Algorithms
- **Data Science & Visualization:** MATLAB, OpenCV, Scikit-learn, Pytorch
- **Tools & Platforms:** Simulink, Vivado, Raspberry Pi, Synopsys(Verdi, VCS), Labview

PROJECTS

Autonomous Self-Parking System with AI **Feb 2024 - May 2024**

- Spearheaded the development of a real-time AI-powered parking detection system using Python, OpenCV, and Scikit-learn for space classification.
- Designed and trained an SVM-based machine learning model for precise parking space recognition. Integrated image processing with OpenCV to detect parking spots and obstacles, ensuring system accuracy.

Agasthya - an AI chat assistant **Aug 2024 - Sep 2024**

- Led a 6-member team to develop an AI chatbot for the Department of Justice, providing technical guidance and strategic direction.
- Supervised the design and integration of a user-friendly interface for real-time legal assistance. Developed optimized data pipelines to enhance chatbot accuracy and performance.

OptiGPT - LLM **Nov 2023**

- OptiGPT is a custom large language model built with a focus on efficient training loops, advanced optimizer techniques, and gradient accumulation. It leverages nnModule inheritance for streamlined generation, combines pretraining with fine-tuning, and incorporates quantization for performance optimization

EDUCATION

Bachelor of Engineering in Electronics & Communication **CGPA: 9.23**
Vasavi College of Engineering
2022 - 2026

Intermediate **PERCENTAGE: 96.8%**
Narayana Junior College
2019 - 2021

ACHIEVEMENTS

- Participated in Smart India Hackathon.
- Served as Student Branch Chapter Chairperson of IEEE Microwave Theory and Techniques Society at Vasavi College.