

HEMANTH REDDY ALLUGUNTI

hemanthallugunti@gmail.com | linkedin.com/in/hemanth | github.com/hemanth | [Portfolio](#)

EDUCATION

SRM Institute of Science and Technology

Bachelor of Technology in Artificial Intelligence

Chennai, India

Sep. 2021 – May 2025

EXPERIENCE

Research Experience

Undergraduate Researcher

November 2023 – Present

SRMIST, KTR

- Conducted a comparative study titled "A Comparative Study between Traditional CNN and Quantum CNN in Face Recognition," currently finalizing outcomes and insights
- Researching the applications of Quantum CNNs in face recognition

PROJECTS

AI-Driven Conversational Agent | *Groq API, LangChain, Streamlit, Python, JavaScript*

August 2024

- Developed a conversational agent capable of human-like interactions using the Groq API model.
- Integrated LangChain for advanced language model management, enabling real-time contextual understanding and dynamic response generation.
- Optimized and deployed on Streamlit, ensuring a smooth and responsive user experience.

TalentScout Hiring Assistant | *Streamlit, Python, Firebase, Gemini AI*

February 2025

- Built an AI-powered hiring assistant with automated candidate evaluation, structured interviews, and real-time scoring.
- Integrated Gemini AI for intelligent assessment and secure data storage using Firebase.
- Provided candidates with real-time feedback, assessment results, and data management options.

RetailVisionAI | *PyTorch, Flask, Microservices, JSON, YOLO*

November 2024

- Developed an AI-driven pipeline for product detection in retail images using Flask and PyTorch.
- Implemented YOLO for real-time object detection, enhancing accuracy and processing speed.
- Designed microservices to process images and return structured JSON responses for product grouping.

Biometric Face Recognition System | *Python, OpenCV, NumPy, TensorFlow*

February 2024

- Built a biometric face recognition system using CNNs for image classification.
- Integrated face registration, model training, and recognition with OpenCV, logging recognized users and announcing names via text-to-speech (TTS).

Negotiation Chatbot | *Rasa, Python, Natural Language Processing (NLP), Custom Policies*

September 2024

- Developed a chatbot simulating real-time price negotiations, leveraging Rasa's NLU pipeline for intent classification, slot filling, and dynamic dialogue management.
- Integrated custom logic to evaluate user offers against predefined pricing thresholds, delivering tailored responses and guiding users through the purchase flow.

TECHNICAL SKILLS

Programming Languages: Python, SQL

Machine Learning and AI: TensorFlow, PyTorch, Scikit-learn

Natural Language Processing (NLP): Rasa, LangChain, Hugging Face

Computer Vision: OpenCV, YOLO, Scikit-Image

Web Development: React, Node.js, Flask, MongoDB, HTML, CSS

Other Tools: Streamlit