

DHULIPALLA HAREESH

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Education

Sri Chaitanya Junior College, Guntur

intermediate

2019 - 2021

8.7 CGPA

Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology, Avadi

B.Tech in Computer Science & Engineering

2021 - 2025

8.0 CGPA

Work Experience

NEXUS Software Info

Web Development Intern

26 Dec 2023 – 26 Mar 2024

Remote

PwC

launchpad program'24 Trainee

14 Feb 2024 – 14 July 2024

Remote

Projects

Job Flow Companion Using AI and NLP.

- Introducing our Job Companion Portal – your ultimate career navigator. Upload your resume, and watch as it transforms into a personalized skills roadmap, guiding you to tailored job matches. Engage with two chatbots for assistance and mock interviews, fine-tuning your readiness for success. Explore diverse domains like AI, data science, cybersecurity, and cloud computing, with curated resources at your fingertips. Experience the future of career exploration with voice and emotion interaction, capturing your confidence and determination. It's more than a portal; it's your companion on the road to professional victory.

Medicinal Plant Recognition System.

- The Medicinal Plant Recognition System is an AI-powered application designed to identify and provide information about medicinal plants using image recognition technology. By leveraging advanced machine learning models and computer vision techniques, the system can analyze images of leaves, flowers, or entire plants and accurately classify them into known medicinal species. This tool is especially useful for students, researchers, herbal medicine practitioners, and nature enthusiasts who want to quickly identify plants and learn about their medicinal properties. Once a plant is recognized, the application provides detailed information including its botanical name, common uses.

AI-Powered Chatbot using LangChain and LLaMA3 via Groq.

- Developed a responsive web-based chatbot using Streamlit that integrates the LangChain framework with Groq-hosted LLaMA3 (70B) large language model via an OpenAI-compatible API. Leveraged langchain for prompt management and chaining, and dotenv for secure environment variable handling. The system allows users to interact with a state-of-the-art LLM through a clean interface, showcasing skills in API integration, LLM orchestration, and full-stack deployment with Python.

JARVIS: A Deep Learning-Based Voice-Activated Virtual Assistant.

- JARVIS is a voice-activated virtual assistant powered by deep learning, designed to understand and respond to natural language queries. It uses a neural network trained on predefined intents to accurately classify user inputs and generate appropriate responses. Integrated with speech recognition and text-to-speech technologies, JARVIS delivers a smooth, conversational experience that feels natural and interactive. In addition to engaging in general conversation, it can perform various tasks such as opening and closing system applications, checking CPU and battery status, sharing personalized daily schedules, and executing voice-driven web searches. JARVIS combines artificial intelligence, automation, and voice control to create an efficient and intelligent personal assistant.

AI-Driven Brain Tumor Classification Using MRI Scans and Google Gemini.

- Developed an automated brain tumor detection system using the Xception-based Convolutional Neural Network (CNN) to classify MRI images into glioma, meningioma, pituitary tumor, and no tumor. Implemented preprocessing techniques including resizing, normalization, and data augmentation to improve model performance. Achieved 98.9% accuracy, 0.92 Dice Score, and 0.89 IoU. Integrated Google Gemini API to provide real-time medical insights, treatment suggestions, and medication recommendations. Designed the system for cloud deployment to support real-time diagnostics and assist healthcare professionals in accurate, fast, and explainable decision-making.

Technical Skills

Languages: Python, Machine Learning, Deep Learning

Frontend: HTML, CSS

Frameworks: Flask, FastAPI, Langchain

Clouds & Databases: AWS, MySQL, MongoDB

Developer Tools: Pycharm, Google Colab, VS Code, GitHub, Postman.

Honours and Awards

- Secured first in HackXcelerate-National level symposium by Velammal Engineering College 2024.
- Secured first in Dataquest ML model Building 2024.
- Secured first in Projectify ML:A Project-Based Learning Hackathon Contest-2024.
- Secured Second in WEBATHON'24 Contest 2024.
- Secured third in AI-NEXUS'24-one day Technical Contest-2024.
- Secured third in Sankalpa-WebPulseHack 2023.
- Participated in 3 Idiots:A interdisciplinary Project Contest 2024.

Certifications

- GOOGLE: Cloud foundation and Gen AI Nov 2 ,2023.
- NPTEL: Machine Learning for Engineering and Science Applications April 2024.
- AWS: Cloud Foundation on January 18,2023.
- IBM COGNITIVE CLASS.AI: Machine Learning using Python June 27,2024.
- GREAT LEARNING ACADEMY: Machine Learning Projects June ,2024.
- Certificate of Presentation: IEEE Conference on Research Methodologies in Knowledge Management, Artificial Intelligence, and Telecommunication Engineering.