

NAVANEETH KRISHNA MADHU

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Innovative software engineer with expertise in Python, machine learning, and AI technologies, specializing in developing intelligent systems for enhancing customer support, human-computer interaction, and digital marketing.

PROJECTS

SAP

Python Backend Developer, GenAI Support Project

2024-present

- Spearheaded the Python backend development for the GenAI project, leveraging OpenAI and LangChain for web crawling, data extraction from both web sources and PDF documents, and knowledge base creation.
- Engineered a generative AI model, similar to ChatGPT, to serve as a customer support bot, capable of providing precise answers from website content and PDFs, significantly enhancing customer service efficiency.
- Collaborated closely with cross-functional teams, ensuring technical solutions met strategic objectives and facilitated seamless integration and deployment across SAP's platforms.

Gesture Recognition System Project

Machine Learning/Software Engineer

2023

- Developed a real-time hand gesture recognition system using OpenCV and Mediapipe, further enhanced by integrating the YOLO object detection algorithm to detect and predict hand signs with high precision.
- Implemented a GPT-4 powered chatbot for innovative gesture-to-text conversion, enabling interactive applications and improving human-computer interaction.
- Leveraged Python to integrate advanced machine learning and deep learning models, ensuring the system's high accuracy in hand gesture identification and interpretation.
- Managed project code and documentation on GitHub, showcasing software development and version control skills.

MetatronCube

AI/ML Intern

2024 - Present

- Contributing to the development of an innovative application aimed at automating the creation of social media posts for Shopify stores, utilizing web scraping techniques to gather product images and descriptions.
- Playing a key role in leveraging OpenAI and machine learning algorithms to transform scraped content into engaging social media advertisements, complete with relevant hashtags and captions.
- Responsible for the AI-driven generation of posts, ensuring content is not only persuasive but also well-tailored to target audiences, enhancing brand visibility and engagement.
- Instrumental in implementing functionality for the automatic scheduling and posting of advertisements, optimizing social media management and marketing strategies.

EDUCATION

Amrita Vishwa Vidyapeetham, Ettimadai, Coimbatore

2012

Bachelor of Computer Science and Engineering,

- CGPA: 6.12

SKILLS & OTHER

Skills: Python, AI, GenAI, ML, Java, C++, C#