

VENKATESH KUNCHALA

AI ENGINEER



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ABOUT ME

Results-driven AI Engineer with 3+ years of hands-on experience in developing cutting-edge GenAI solutions and advanced machine learning models. Expertise in Python, Langchain and AgenticAI with a strong background in data analysis, NLP, and CV. Proven ability to translate complex business requirements into scalable technical solutions, optimizing process efficiencies and improving user experiences. Passionate about leveraging AI to drive innovation and deliver impactful results. Ready to contribute to dynamic teams and deliver tangible value.

EDUCATION

2016 - 2020

B.Tech

JNTUH-CEH University

- Graduation with Distinction

SKILLS

- Python,Langchain
- Machine Learning
- Generative AI
- Docker
- MySQL ,MongoDB
- Deep Learning
- FastAPI and Flask
- Linux(Ubuntu)

EXPERIENCE

May 2024 - NOW

AI Engineer

Krtrimaiqai
Cognitive
Solutions

- Led the development of the Education Bot, an innovative AI-driven platform for KV group of schools, designed to elevate the educational experience through advanced AI features
- Engineered a suite of chatbots employing state-of-the-art language models with technologies including LangChain and FastAPI to improve administrative and educational processes
- Contributed to developing an innovative healthcare messaging application aimed at reducing avoidable hospitalizations by leveraging cutting-edge AI technology
- Integrated sophisticated chatbot capabilities to enhance patient interaction and data management within healthcare settings
- Designed and developed Interview Bot, a revolutionary video processing application that optimizes the remote interviewing experience by leveraging facial recognition technology
- Implemented real-time behavioral analysis capabilities to enhance recruiter insights and provide a consistent candidate experience
- Use Docker to configure and manage web applications in a virtual machine.
- Leverage virtual machine resources to run and test the web applications in isolated environments.
- Utilize Linux commands to install and configure Docker, Nginx, and the necessary web applications.

Jan 2021 - Jul 2023

Data Scientist

IBM Pvt Ltd

- Engineered a robust AI chatbot for retail, aimed at providing comprehensive customer support and intelligent product recommendations
- Utilized advanced NLP and sentiment analysis techniques to elevate user interaction and satisfaction within e-commerce platforms
- Engineered a robust order management system for Oxford, designed to streamline book order processing and enhance efficiency
- Constructed backend APIs to facilitate seamless data handling and integration for optimized performance
- Engineered advanced computer vision solutions to optimize retail inventory management by enhancing product identification accuracy
- Implemented YOLO technology for real-time tracking, resulting in improved organizational efficiency on retail shelves
- Delivered data-driven insights to inform HR strategies aimed at enhancing workforce stability and productivity

Projects

AI-Powered Learning Platform for KV School Students

Developed an AI platform to automate assignments, assessments, and provide personalized feedback, enhancing the learning experience. Streamlined learning processes and reduced administrative workload for KV school educators.

Oxford Order Processing System (OUP)

Built a robust order management system for Oxford University Press with real-time tracking and inventory management. Improved order fulfillment accuracy and processing efficiency.

Healthcare Messenger App

Created a healthcare messenger app with LLM-based chatbots for patient check-ins and day care services. Integrated face detection and voice bot functionalities for seamless user experience.

Real-Time Object Detection (YOLOv8)

Developed a custom YOLOv8 model for real-time detection of people, guns, and individuals in ghillie suits. Enhanced security and surveillance capabilities with fast and accurate object recognition.

Real-Time Object Detection (YOLOv8)

Developed a custom YOLOv8 model for real-time detection of stock levels and in-store activities through CCTV. Enhanced retail operations by providing accurate object recognition for inventory tracking and security monitoring.

Employee Attrition Prediction

Developed a predictive analytics solution using classification algorithms and sentiment analysis to anticipate employee attrition. Enabled early identification of at-risk employees and improved retention strategies.

Links: <https://ragimplementation.streamlit.app/>
<https://github.com/venkatesh-dev-bot/>