Kishore Reddy Mamidi
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PROFILE:

AI Engineer and Computer Science graduate with hands-on experience building end-to-end machine learning systems and intelligent applications. Specialized in LLM implementations, RAG architectures, and MLOps best practices with a proven track record of developing production-ready AI solutions. Combines strong technical foundations in data analysis and software development with practical experience in modern AI frameworks. Particularly skilled in educational AI applications and natural language processing. Seeking an AI Developer role where I can leverage my expertise to create innovative, scalable, and ethically designed AI systems that deliver measurable business impact.

EDUCATION:

Saint Louis University, St. louis, MO   May-2025
Master of Science in Computer Science   GPA 3.9/4.0

Vellore institute of technology Vellore, India   May-2023
Bachelor of Technology in Electronics and communication engineering.   GPA 3.24/4.0

EXPERIENCE:

Intern in Data Visualization, Excelerate   Aug 2023-Sept 2023
- Internship as Project Lead in Data Visualization, creating interactive dashboards and providing data-driven insights, resulting in improved decision-making and a best practice guide for future projects.
- Developed a best practice guide for data visualization techniques, streamlining future projects and fostering a culture of continuous improvement.
- Collaborated with cross-functional teams to gather requirements, ensuring dashboards met diverse needs and enhancing user satisfaction.

Technical Team, Vellore Institute of Technology IEEE-NPPS   Jul 2020-Jun 2021
- Supported technical team, enhancing event efficiency through collaborative problem-solving.
- Assisted in organizing technical events, achieving increased participant engagement.
- Developed technical skills, contributing to successful project execution and team collaboration.

PROJECTS:

HOUSE PRICE PREDICTION WITH END-TO-END MLOPS PIPELINE
Developed a production-ready house price prediction model using end-to-end machine learning and MLOps practices. Conducted deep exploratory data analysis to guide feature engineering and model selection. Built a scalable ML pipeline with clean code structure, integrated MLflow and ZenML for experiment tracking, and implemented CI/CD workflows for seamless deployment. Focused on reproducibility, data storytelling, and real-world deployment readiness.

AI TUTOR & QUIZ GENERATOR - AGENTIC AI PROJECT
Built a personalized AI tutor and quiz generator supporting multilingual content using OpenAI's API. Implemented Retrieval-Augmented Generation (RAG) to provide accurate, contextualized responses based on educational materials. Designed advanced prompt engineering techniques to optimize LLM outputs for educational contexts, ensuring age-appropriate and curriculum-aligned content. Developed custom fine-tuning protocols to enhance model performance on specialized subjects. Created modular backend APIs for tutor responses and dynamic quiz creation. Containerized the application with Docker and implemented CI/CD pipelines using GitHub Actions and AWS ECR. Deployed the project securely on the cloud with proper configuration of security groups and runner services.

SKILLS:

Soft skills: Teamwork, Problem solving, Innovation, Time management, Agile methodologies
Technical skills: Python, MLOps, Natural Language Processing, AI/ML Frameworks, AI Agents, DevOps, Web Development, Data Processing