RAKESH BOPPANA

Artificial Intelligence & Data Science

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ABOUT ME

AIgraduate withpractical experience in building intelligent systems like chatbots and voice-based tools. Skilled in machine learning, NLP, and developing real-world solutions using Python and AI frameworks. Passionate about using technology to solve Problems.

SKILLS

- Programming Languages : Python, Machine Learning, Deep Learning
- Databases : MongoDB, MySQL (Basics)
- Frameworks & Libraries : Streamlit, Django (Basics), Flask, Scikit-Learn, TensorFlow, Keras, NumPy, Pandas, Beautifulsoup, Selenium, OpenCV, Tesseract OCR, Whisper
- AI & ML : Natural Language Processing (NLP), Large Language Models (LLMs), Retrieval-Augmented Generation (RAG), Generative AI, Model Fine-tuning, Prompt Engineering
- APIs & Integrations : Google Gemini API, WeatherAPI, Email OTP Authentication, Speech Recognition API, Google Lens API (Image-to-Text Extraction)

WORK EXPERIENCE

Corpitsoft   **Dec 2024 - Present**
AI Research & Development

I have worked extensively as an AI/ML Engineer, building and deploying end-to-end intelligent systems using **Python, Streamlit, Flask, Google Gemini LLMs, Meta-NLLB models, Whisper, FFmpeg, Tesseract OCR, Selenium WebDriver**, and modern NLP/CV pipelines. My experience includes designing scalable **LLM-based applications**, automating complex workflows, integrating **speech-to-text, text-to-text multilingual translation, document intelligence**, and implementing **real-time data extraction with OCR and web automation**. I have strong expertise in working with **MongoDB, REST APIs, PDF/DOCX processing, prompt engineering, model fine-tuning, and cloud-based AI orchestration**, along with building secure authentication systems, role-based access, and dynamic UI components. Additionally, I have developed solutions for **audio processing, YouTube transcription, conversational AI, resume intelligence, dataset generation, synchronous/asynchronous task handling**, and deploying production-ready AI applications. This experience demonstrates my ability to combine **LLMs, automation, model pipelines, and full-stack AI development** to deliver high-impact, real-world solutions.

EDUCATION

RamaChandra College of Enginerering | 2021-2024
B.Tech - **Artificial Intelligence & Data Science**
A.K.R.G College of Engineering & Technology | 2017-2020
Diploma - **Mechanical Engineering**