

PRANESH S



PROFILE SUMMARY

Passionate B. Tech Final year student specializing in Artificial Intelligence and Machine Learning at Bannari Amman Institute of Technology. Proficient in C, Java, Python (Basics), SQL, and experienced in Machine Learning and CS Fundamentals. Successfully completed projects including a Day-to-Day Automation MCP servers, AI Generated Video Detection using EfficientNetV2 and MTCNN, and Emotion Detection in Text using BERT Model.

CONTACT DETAILS

@ praneshmadhan646@gmail.com

+91 63 74 06 40 16

Github

in LinkedIn

Portfolio

PERSONAL INFORMATION

Citizenship: **Indian**

Languages: **English, Tamil**

SKILLS

- Machine Learning , Deep Learning , NLP , Transformers(GPT-2, GPT-3) , Chroma DB , AI Agents , MCP (Model Context Protocol) , Vision Models
- Python Programming (Basics) , SQL , OOPS , C Programming , Java Programming
- YAML , Git
- Cloud Computing , Docker , Azure Cloud

PROJECTS

PDF RAG

◇ Designed and implemented a collaborative PDF-based RAG system powered by GPT-4.1, enabling users to extract insights and interactively query uploaded documents. Developed a multi-user feature allowing simultaneous question-answering from a single uploaded file to support teamwork and collaboration. Built the backend using Python (Flask) integrated with Azure OpenAI for intelligent retrieval and response generation. Developed a modern frontend using Next.js and TypeScript, providing an intuitive interface for seamless user interaction.

DEEP FAKE GENERATED VIDEO DETECTOR

◇ Designed and implemented a deepfake video detection system to identify AI-generated videos and safeguard users from scams. Utilized MTCNN for face detection and EfficientNetV2 for video classification to achieve high accuracy in distinguishing real vs. fake content. Developed an interactive interface using Gradio, allowing users to test videos, report incorrect predictions, and improve the model through continuous feedback. Implemented in Python with a focus on security and user trust.

WHATSAPP CHATBOT USING GPT-2 WITH QLoRA

◇ Designed and implemented a WhatsApp chat-based conversational chatbot using GPT-2, fine-tuned with QLoRA (4-bit quantization) to optimize memory usage and training efficiency on RTX 3050 (6GB VRAM). Utilized TF-IDF + Cosine Similarity for input-response matching, improving fluency in Tamil-English (Tanglish) conversations. Developed an interactive chatbot interface using Gradio for real-time contextual conversations.

EDUCATION

BACHELOR OF TECHNOLOGY IN ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING. *Bannari Amman Institute of Technology.* **2022– Current**

CERTIFICATIONS

◇ MACHINE LEARNING WITH PYTHON *FreeCodeCamp.*

◇ MICROSOFT APPLIED SKILLS: CREATING AN INTELLIGENT DOCUMENT PROCESSING (IDP) SOLUTION USING AZURE AI DOCUMENT INTELLIGENCE *provided by Microsoft Azure.*

◇ MICROSOFT APPLIED SKILLS: BUILDING A NATURAL LANGUAGE PROCESSING (NLP) SOLUTION USING AZURE AI LANGUAGE *provided by Microsoft Azure.*

◇ ORACLE AI FOUNDATION ASSOCIATE, ORACLE

HOBBIES

Reading Tech Blogs, Surfing about Tech, Playing and Watching Football