

PRRAJWAL ANDDURE

ARTIFICIAL INTELLIGENCE DEVELOPER

PROFESSIONAL SUMMARY

AI & Computer Vision Developer with 1 year of experience, skilled in deploying YOLO-based systems for manufacturing automation and safety. Hands-on with Generative AI, including LLMs, AI Agents, Conversational AI, Prompt Engineering, PDF parsing, document summarization, TTS, and AI-driven content tools. Built real-world solutions using Python, OpenAI, and multi-modal AI for automation, learning, and productivity.

CONTACT

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WORK EXPERIENCE

Technohertz Technologies LLP | May 2024 - Nov 2024 | Baner, Pune

1. Shoes Detection in Factory

- Developed a system to monitor workers' footwear compliance within safety zones using ROI-based detection.
- Identified individuals and verified if they were wearing appropriate safety shoes.
- Generated annotated video outputs to assist compliance officers.

2. Speed Detection of Vehicles

- Used YOLOv8 to detect vehicles in video feeds.
- Applied KCF tracking to maintain vehicle ID across frames.
- Computed vehicle speed using frame-by-frame displacement and time tracking.

3. Text-to-Video Generator

- Built a Generative AI tool that converts input text into customized marketing videos.
- Integrated voice-over options, video styling, and AI automation for dynamic content generation.

Unioteq Commercial Service Pvt. Ltd. | Chhatrapati Sambhajinagar

Artificial Intelligence Intern

Project: AI-Powered Multi-Modal Knowledge Agent

Designed a multi-modal AI agent that mimics Google NotebookLM by extracting knowledge from PDFs, generating mind maps, and creating podcast audio using TTS. Used PyMuPDF, LLMs (GPT-4), and prompt engineering to deliver structured summaries and multi-format content (text → visual → audio) for educational use.

ACADEMIC HISTORY

Bachelor of Science in Mechanical Engineering |

2019 - 2024

Maharashtra Institute of Technology | Chhatrapati Sambhajinagar

- CGPA: 7

SKILLS

- **AI & Machine Learning:**
- Computer Vision, Deep Learning, Machine Learning, YOLO (v8), Convolutional Neural Networks (CNN), K-Nearest Neighbors (KNN), Random Forest, Clustering, Data Mining, Exploratory Data Analysis (EDA), Statistical Analysis
- **Generative AI & LLMs:**
- Generative AI, Large Language Models (LLMs), Conversational AI, AI Agents, Prompt Engineering, OpenAI APIs (GPT-4), Multi-modal AI, Text-to-Speech (TTS) & Podcast Generation, Mind Mapping, NotebookLM-style Knowledge Agents, Document Parsing & Summarization (PyMuPDF) , Large Language Models (LLMs) , Natural Language Processing (NLP) , Prompt Engineering , Fine-tuning LLMs (GPT, LLaMA, Mistral) , Model Evaluation (BLEU, ROUGE, perplexity) , Tokenization (Byte-Pair Encoding, SentencePiece) , Text Generation , Retrieval-Augmented Generation (RAG) , In-context Learning , Few-shot & Zero-shot Learning .
- **Programming & Libraries:**
- Python, R, PyTorch, Keras, Scikit-learn, OpenCV, Pandas, NumPy, Matplotlib, Seaborn, SciPy
- Databases & Querying:
- SQL, MySQL, Microsoft SQL Server, RDBMS, DBMS, MySQL Workbench
- Deployment & Tools:
- Android App Development, Streamlit, Google Colab, Git/GitHub, Microsoft Excel & Word, Ngrok server.
- **Tools & Frameworks:**
- Hugging Face Transformers , OpenAI API (GPT-4, GPT-3.5) , LangChain , LlamaIndex , Weaviate / ChromaDB (Vector Databases)
- **Model Training & Deployment:**
- DeepSpeed / LoRA / QLoRA / PEFT , Transformers Fine-tuning , Docker & FastAPI , Model Inference & Optimization , On-device / Edge LLM deployment
- **AI Agent Engineering:**
- AI Agents, Multi-Agent Systems, LangGraph, CrewAI, ReAct Architecture, Toolformer Architecture, Tool Integration, Document QA Pipelines
- **Data Handling & Integration:**
- Data Labeling, Data Curation, JSON Parsing, CSV Parsing, PDF Parsing, Web Scraping (BeautifulSoup, Selenium), SQL, NoSQL, MongoDB, RESTful APIs, GraphQL
- **Complementary Skills:**
- Git, GitHub, Streamlit, Gradio, VS Code, Jupyter Notebooks, Linux, Ubuntu CLI, AWS, GCP, Azure
- End-to-End LLM Pipeline, Real-time Chatbot Deployment, Semantic Search, Context-aware Retrieval, Conversational AI, LLM Evaluation, Benchmarking, Privacy-Aware AI, Multimodal AI

CERTIFICATE

- **GENERATIVE AI WITH LLMs: FROM CHATGPT TO MULTI-MODAL AGENTS – UDEMY**
- GAINED HANDS-ON EXPERIENCE IN BUILDING AI AGENTS, PROMPT ENGINEERING, AND DEPLOYING MULTI-MODAL TOOLS LIKE TEXT-TO-SPEECH, DOCUMENT SUMMARIZATION, AND PODCAST GENERATION.
- **YOLOV8 OBJECT DETECTION & TRACKING – PROJECT-BASED CERTIFICATION**
- COMPLETED PRACTICAL PROJECTS ON REAL-TIME OBJECT DETECTION (SHOES, VEHICLES), MODEL TRAINING, AND DEPLOYMENT USING YOLOV8.
- **AI-POWERED KNOWLEDGE AGENT & PODCAST GENERATOR – COMPANY PROJECT VALIDATION (UNIOTEQ)**
- RECOGNIZED FOR DEVELOPING A MULTI-MODAL AI SYSTEM MIMICKING NOTEBOOKLM FOR EDUCATIONAL CONTENT DELIVERY.
- PYTHON FOR DATA SCIENCE AND MACHINE LEARNING – COURSERA / UDEMY (OPTIONAL PLACEHOLDER)
- LEARNED PYTHON LIBRARIES SUCH AS NUMPY, PANDAS, MATPLOTLIB, AND SCIKIT-LEARN USED IN REAL-WORLD ML PROJECTS.