

PROFESSIONAL SUMMARY

Experienced Software Developer with strong analytical skills and a passion for problem-solving. Thrives in collaborative software development environments. Specializes in Python, AI, Machine Learning (ML), Deep Learning (DL), and Generative AI (GenAI) with nearly 2 years of hands-on experience. Proficient in LangChain, LLM application development, NLP, TensorFlow, and PyTorch. Adept at data preprocessing, model fine-tuning, prompt engineering, and utilizing vector databases. Dedicated to constructing scalable AI solutions, enhancing model performance, and harnessing the latest advancements in AI/ML technologies.

EDUCATION

**Bachelor’s Degree :** Computer Science (Data Science) 2018-2022

**Medicaps University,** Indore

TECHNICAL SKILLS

Python • Artificial Intelligence • Machine Learning • LLM • Data Analysis • Deep Learning • Generative AI • Feature Engineering • NLP • Regression • Classification • LangChain • Predictive Modeling • TTS • OCR • Agentic AI • RAG (Retrieval Augmented Generation) • Conversational AI • FastAPI • Vector Databases • Transfer Learning • Computer Vision • Few-Shot Learning • Transformers • Pandas • Data Analysis • Model Optimisation

PROFESSIONAL EXPERIENCE

Valere

Associate Software Engineer

October 2024 - Present

Indore

- Developed Mech AI, an AI-driven assistant using **GPT-4.0**, **BERT**, **LangChain**, and **Chat Memory**, enabling natural language query transformation for mechanics to retrieve vehicle part details, wiring diagrams, and troubleshooting solutions from a custom database, deployed via **FastAPI** for real-time assistance.
- Collaborated and contributed to Athes AI, an **Agentic AI** powered chat and **Recommendation system**, where multiple sports coaches act as AI agents to answer user queries and suggest relevant videos using **OpenAI**, **Whisper** for video transcription, and **Chroma DB** vector database for intent-based video retrieval and recommendation.
- Developed a Production-Ready AI Contracting Assistant , an AI-powered **Chatbot** for querying construction site data, leveraging **LLMs**, **vector databases**, and optimised model for AI-driven search for accurate responses. Enabled users to retrieve source file links, view relevant page snapshots from the vector database, and upload their own contract documents for querying.

Hiteshi Infotech

Trainee Software Engineer

November 2023- October 2024

Indore

- Collaborated with a cross functional team and developed an AI-powered Employee Productivity Monitoring System leveraging **Computer Vision**, **YOLO**, and **MediaPipe** for precise **object detection** and workplace analytics with AI-driven solutions that provided actionable insights to enhance productivity while ensuring employee privacy and autonomy.
- Assisted in creation of medical chatbot capable of handling diverse medical queries, providing differential diagnoses, and offering AI-driven medical insights. Integrated image and report analysis features to interpret and process medical data effectively.
- Developed an AI-powered Proof-of-Concept (PoC), a teaching assistant that quizzes medical students, evaluates responses, and provides real-time feedback and scoring

CERTIFICATES

- Problem Solving :** HackerRank
- Tensorflow for Deep Learning :** Coursera