

Vishwajith J

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About

Data Science aspirant with expertise in Predictive Analytics, Machine Learning, Deep Learning. Looking for opportunities to apply strong analytical skills and programming knowledge in challenging roles of machine learning engineers.

Academic Projects

Multi-Agent AI-Assisted Chat-bot for Relocation Services Management

- Developed an Multi-Agent AI assisted chat-bot defining Agents, Tools and Chain that optimizes relocation services through **Retrieval-Augmented Generation (RAG)**, providing users with real-time, accurate assistance and up-to-date information and personalized responses.
- **Tools:** Python, OpenAI & Gemini LLMs, RAG , Prompt Engineering, Langchain , LLM-API Integrations (Tavily, Serper, Serp API's), Artificial Neural Networks

Automated Invoice Processing and Predictive Inventory Management

- Implemented YOLO V8 and OCR technology to automate invoice data entry, reducing manual processing time by 60 hours per week and improving data accuracy by 90%
- **Tools:** Roboflow (Field Annotation), Ultralytics YOLO, Tesseract OCR, OpenCV, Python, Pandas.

Student Event Collaboration Platform

- A **Web platform** for students to discover, collaborate, share, and register for college events using verified student email IDs. It allows users to post event details, get real-time updates, and explore cultural, research, and technical events across colleges.
- **Tools: Frontend:** HTML, CSS, JavaScript, **Backend:** Flask (Python), **Database:** MongoDB

Internships

Optisol Business Solutions

Role: AI/ML Engineer

Chennai

June 2024 - December 2024

- Developed Multi-Agent AI assisted chat-bots , SQL agents for medical databases , Power-BI dashboards and Multiple POC's.
- Collaborated effectively with a diverse team working in a hybrid model across multiple locations, playing a key role from the initial planning and requirement analysis phase through to successful deployment

Virudhunagar Textile Mills (VTM) Pvt Ltd

Role: Data Analyst Intern

Madurai

December 2023 - January 2024

- Analyzed textile production data to identify process inefficiencies and optimize manufacturing workflows
- Developed Python data visualization dashboards to present key performance indicators to management

Technical Skills

Programming Languages: Python, C++

Machine Learning: Scikit-learn, TensorFlow

Web Frameworks: Flask, Streamlit

Databases: MySQL, MongoDB

Achievements

- **Hackathon :** 6th Place in IITM Paper Presentation - HACK CIDENTS Jan 28, 2023
- **Hackathon :** 3rd Place in Madurai Hackathon 2022 Aug 12-14, 2022
- **Hackathon :** 2nd place in Tech Quiz, American College - BYTES 2K23 Feb 15, 2024
- **Sports :** 1st place in BASKETBALL - INTER-DEPARTMENT_TCE Mar 30, 2024