

# Vishwajith J

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## About

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Aspiring Data Scientist with hands-on internship experience and academic projects in data science, machine learning technologies, and LLM frameworks. Skilled in providing data-driven solutions and analytics. Seeking entry-level opportunities in data science and machine learning to contribute technical skills.

## Academic Projects

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### MediMind AI - Multi-Agent AI Assisted Healthcare Intelligence ChatBot

- Developed a sophisticated multi-agent healthcare AI system using LangChain and LangGraph with four specialized agents: SQL Generator, Database Executor, Error Explainer, and Result Summarizer for automated medical data analysis and patient information management.
- **Tools:** LangChain, LangGraph, Ollama-Mistral, Flask, SQLite, HTML5, Tailwind CSS

### 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, **Database:** SQLite

## Internships

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### Optisol Business Solutions

**Role:** AI/ML Engineer

Chennai

June 2024 - December 2024

- Developed an AI-powered chatbot for relocation service management utilizing LangChain, JSON Data, Vector Databases (Azure Cosmos DB), and Azure with implemented natural language processing techniques.
- 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

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**Programming Languages:** Python, C++

**Machine Learning:** Scikit-learn, TensorFlow

**Web Frameworks:** Flask, Streamlit

**Databases:** MySQL, MongoDB

## Achievements

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- **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