

Vishwajith J

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Professional Summary

Data Scientist with hands-on experience developing ML models, AI systems, and production-ready solutions. Expertise in machine learning, deep learning, NLP and generative AI. Proven track record delivering measurable business impact through data-driven insights and automated solutions.

Technical Skills

Programming: Python, Java, SQL

Machine Learning: Scikit-learn, TensorFlow, LangChain, LangGraph, OpenAI API

Data & Cloud: Pandas, NumPy, ChromaDB, MySQL, SQLite, Azure, Git, Streamlit

Specializations: Machine Learning, NLP, RAG Systems, Database Management Systems

Professional Experience

AI/ML Engineer | Optisol Business Solutions

June 2024 – December 2024

- Built production-grade Multi-toolkit conversational Agentic AI chatbot using LangChain, Langgraph, RAG architecture, hosted using Azure Cosmos DB, serving 500+ daily queries with 92% satisfaction rate
- Implemented vector embeddings and natural language processing for intelligent query handling

Machine Learning Engineer | Virudhunagar Textile Mills Pvt Ltd

Dec 2023 – Jan 2024

- Deployed YOLO v8 and OCR pipeline for automated invoice extraction, achieving 90% accuracy and processing 1000+ weekly invoices with 85% time reduction
- Automated data processing pipelines for real-time inventory management and data-driven decision-making

Key Projects

MediMind AI - Multi-Agent Healthcare Intelligence System

- Built end-to-end multi-agent AI platform using LangChain, LangGraph and RAG architecture, achieving 95% accuracy in medical data analysis and automated patient information retrieval
- Tech Stack:** LangChain, LangGraph, Ollama-Mistral, Flask, SQLite, Vector Embeddings

Identifying Most Influential Student Learning Obstacles

- Analyzed diverse academic, lifestyle, and environmental factors from a dataset of 2,473 students of TCE to identify key obstacles impacting their academic performance (SGPA).
- Tech Stack:** Python, Pandas, Scikit-learn, Random Forest, Decision Trees, Feature Engineering

Atya - Campus Connect Event Management System

- Developed a comprehensive event management web application using Flask and SQLite with user authentication, advanced search filters, and automated event cleanup via database triggers
- Tech Stack:** Flask, SQLite, HTML/CSS/JavaScript, SQL Triggers, CRUD Operations

Education

MSc Data Science (5-Year Integrated)

2021 – 2026

Thiagarajar College of Engineering, Madurai | CGPA: 8.3/10

Higher Secondary Education

2021

VMJ Higher Secondary School, Madurai | Percentage: 92.6% (ISC)

Achievements

- Hackathon Winner:** 6th Place, IIT Madras Paper Presentation - HACK CIDENTS

Jan 2023

- Innovation Award:** 3rd Place, Madurai Hackathon 2022 - AI/ML Track

Aug 2022

- Technical Excellence:** 2nd Place, Tech Quiz, American College BYTES 2K23

Feb 2024

- Leadership:** Captain, College Basketball Team, Thiagarajar College of Engineering

Mar 2024