

Vishwajith J

Email: jvishwajith4@gmail.com | **Phone:** +91-9790228681 | Madurai, India
Portfolio: jvishwajith.github.io/vishwajith-portfolio | **GitHub:** github.com/jvishwajith
LinkedIn: linkedin.com/in/vishwajith-j-736652248

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, Langraph, 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