

# Vishwa R

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## Education

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### Coimbatore Institute of Technology

Nov 2021 – Present

*M.Sc. Decision and Computing Sciences, CGPA: 7.9/10*

*Coimbatore, India*

*Coursework: Data Mining, Statistics, Data Visualization, Data Structures, Machine Learning, Project Management*

## Technical Skills

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**Programming:** Python, SQL

**AI & NLP:** LangChain, Hugging Face, spaCy, RAG, Multi-Agent Systems, Semantic Retrieval, Prompt Engineering

**ML Frameworks:** Scikit-learn, TensorFlow, PyTorch, Pandas, NumPy, Matplotlib

**Web & API:** FastAPI, Flask, Django

**Databases & Cloud:** MySQL, MongoDB, Supabase, ChromaDB, Google Cloud Platform

**Tools:** Microsoft Power BI, Microsoft Excel, Jupyter Notebook, Google Colab, GitHub

## Experience

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### AI Product Engineer Intern

Dec 2025 – April 2026

*Prediscan Medtech Pvt. Ltd*

*Hybrid*

- Engineered a multi-agent microservice architecture for end-to-end document understanding, and automating metric and requirement extraction from RFP documents and significantly reducing manual review time.
- Built a scalable RAG pipeline integrating structured ingestion, semantic segmentation, and context-aware retrieval to power grounded, citation-backed LLM outputs with measurably improved generation quality.
- Designed a collaborative multi-agent agentic workflow for structured NLP content generation, enforcing factual grounding and citation consistency across multi-section proposal outputs.

*Data Science Intern | Chennai, India*

*Jul 2024 – Jan 2025*

- Developed and evaluated ML models for clinical risk assessment, leading biomarker feature extraction and applying structured evaluation strategies to improve diagnostic precision and model reliability.
- Automated end-to-end data preprocessing for 6,000+ records, standardizing pipelines to enhance data consistency, accelerate feature engineering, and improve model readiness and performance.

## Projects

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### LoopMind - Intelligent Document Processing | *Python, Supabase, FastAPI, LangChain, React*



- Engineered an IDP platform powered by the multi-agent framework, dramatically accelerating dataset inference by completely automating end-to-end data analysis, code generation, and execution workflows.
- Architected an asynchronous agentic pipeline orchestrating 8 specialized NLP agents over FastAPI, managing cyclic reasoning loops and delivering stateful, real-time query processing via Server-Sent Events.
- Built a zero-trust sandboxed execution system that isolated 100% of AI-generated scripts in secure containers, integrating persistent observability and automated verification to significantly reduce execution failures and improve system reliability.

## Soft Skills

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Flexible | Curiosity & Innovation | Continuous Learning | Cross-functional Collaboration

## Hackathon

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**SensAI × HyperVerge Hackathon** Top 10 Finalist: Developed a multilingual real-time AI feedback system with native script and phonetic transliteration using Python and NLP frameworks.

## Certifications

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Google Data Analytics Professional Certificate

Udemy: Microsoft Power BI Desktop for Business Intelligence