

Yash Maheshwari

Pre-Final Year Computer Science Student — Data Science Specialization, Manipal University Jaipur

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PROFESSIONAL SUMMARY

Pre-final year Computer Science and Engineering student specializing in Data Science, focused on building intelligent, scalable systems using ML, backend engineering, and agentic AI frameworks. Experienced in **Python**, **FastAPI**, **SQL**, and **ML deployment**, with hands-on work in LLM-powered platforms and cloud-native architectures. Seeking roles in **Software Engineering**, **AI/ML Engineering**, or **Backend Platform Development**.

TECHNICAL SKILLS

Languages: Python, Java, C, SQL

Frameworks & Tools: FastAPI, Supabase, Docker, Git, GitHub, Power BI, VS Code

ML/Data Stack: Scikit-learn, TensorFlow, Pandas, NumPy, RAG, LLMs, NLP, Matplotlib, **LangChain**, **LangGraph**, **LangSmith**, **MCP**

Soft Skills: Leadership, Collaboration, Communication, Problem Solving

PROJECTS

Wealthify: AI Finance Manager

FastAPI, Supabase, ML — GitHub

- Built REST APIs and ML models for AI-driven budget and expense forecasting with **90% prediction accuracy**.
- Optimized Supabase queries and backend workflows, improving data sync performance by **35%**.

ClaimWise: Smart Insurance Assistant

FastAPI, RAG — GitHub

- Designed an LLM-powered insurance assistant using **RAG** and semantic document retrieval.
- Reduced response latency by **60%** through efficient indexing and modular FastAPI architecture.

TradeguardAI: Global Trade Intelligence Platform

FastAPI, LangChain, Next.js — GitHub

- Developed an AI-driven trade disruption monitoring system with real-time news ingestion and summarization.
- Integrated FastAPI backend with interactive dashboards for analytics and predictive insights.

Formula 1 Race Outcome Prediction

Python, ML — GitHub

- Predicted race outcomes using ensemble ML models; improved RMSE by **12%** through feature engineering.

EXPERIENCE

AI/ML Intern — DevX

2024–2025

- Assisted in developing a **machine learning forecasting engine**, improving prediction accuracy by **70%**.
- Built an **intelligence layer** using LLMs and RAG pipelines to transform raw data into actionable insights.
- Deployed ML inference workflows via **FastAPI**, supporting scalable and production-ready model serving.

Backend Engineer — Orydle

2024–Present

- Engineered a **LangGraph-style FastAPI server** enabling async workflow execution, checkpointing, and WebSocket streaming.
- Developed backend services powering a **cloud-based IDE**, handling run orchestration, state management, and artifact storage.
- Improved backend reliability and throughput by **30%** through async design patterns and modular service architecture.

EDUCATION

B.Tech in Computer Science and Engineering (Data Science Specialization)

2023–2027

Manipal University Jaipur

GPA: 7.5 / 10

Relevant Coursework: Machine Learning, Data Structures, Database Management Systems (DBMS), Artificial Intelligence, Cloud Computing, Computer Networks, Object-Oriented Programming Systems