Tanish Vishwakarma

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Experience

Magna Data Private Limited **May 2026 – Present**
AI Automation Engineer Intern *Pune, Maharashtra*

- Architected an enterprise-grade Multi-Agent AI system in Frappe ERPNext using LangGraph, LangChain, and LangSmith, leveraging contextual memory and multi-agent orchestration to automate complex workflows.
- Integrated a 10+ agent AI chatbot with ERPNext APIs to execute real-time CRUD operations, document understanding, report generation, and business analytics.
- Optimized RAG retrieval performance by building internal API documentation and knowledge repositories, streamlining AI ecosystem integration.

Projects

Enterprise AI Assistant for Frappe ERPNext | *LangChain, LangGraph, LangSmith, Python, Frappe ERPNext* **2026**

- Built an enterprise AI assistant consisting of 10+ specialized AI agents capable of document understanding, report generation, ERP CRUD operations, and business analytics.
- Implemented a Multi-Agent architecture that delegates tasks such as retrieval, reasoning, CRUD execution, reporting, and document understanding to specialized AI agents.
- Enabled users to generate reports, analyze historical business data, retrieve invoices, and manage ERP records through an AI chatbot.

FrappeERP API Testing & Documentation Suite | *Python (Pytest), Postman, React, Node.js, Obsidian* **2026**

- Built endpoint-first API documentation for ERPNext v16, covering 20+ modules with Markdown guides, Postman collections, and an interactive docs UI.
- Developed a Pytest suite to automatically validate CRUD and submit/cancel operations against live ERPNext DocTypes across every major module.
- Designed an Obsidian-based knowledge graph linking modules, DocTypes, and business flows to give LLM coding agents structured ERPNext API context.
- Built an interactive React/Vite docs UI generating copy-ready cURL, Python, and Node.js request samples for every endpoint.

Real-Time Collaborative Drawing App | *Next.js, TypeScript, OAuth, WebSocket, Canvas API* **2025**

- Built a real-time collaborative drawing app supporting 50+ concurrent users on a shared canvas.
- Implemented bidirectional WebSocket communication, achieving 100 ms sync latency across clients.
- Developed custom drawing tools (pencil, color palette, eraser, clear canvas) using Canvas API, achieving smooth rendering performance.
- Added room-based collaboration, enabling private sessions for teams and increasing usability for group projects.

Technical Skills

Languages: C++ | JavaScript (ES6+) | TypeScript | Python
Frontend: React.js | Next.js | Tailwind CSS
Backend: Node.js | Express.js | REST APIs | WebSockets | OAuth 2.0 | JWT Authentication
ERP: Frappe Framework | ERPNext Customization | ERPNext REST APIs | DocTypes
AI & LLM: LangChain | LangGraph | LangSmith | Multi-Agent Systems | RAG (Retrieval-Augmented Generation) | AI Agents | Prompt Engineering | Embedding Models | AI Workflow Automation | MCP
Databases: PostgreSQL | MongoDB | Vector Databases | SQL | Excel
DevOps & Tools: Docker | Git | GitHub | CI/CD Pipelines | Turborepo | n8n
Core CS: Data Structures & Algorithms | Object-Oriented Programming | Operating Systems | Computer Networks

Education

Shoolini University **2026 – 2028**
Master of Computer Applications (MCA) *Himachal Pradesh*

Gyanganga College of Excellence **2023 – 2026**
Bachelor of Computer Application (BCA) *Jabalpur, Madhya Pradesh*

Achievements

- Solved 100+ DSA problems across LeetCode and HackerRank.
- Open-sourced an API testing and documentation suite covering 20+ ERPNext modules.
- 5 Star HackerRank in C++.