Vipul Yadav

Applied AI Engineer

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PROFILE

Applied AI Engineer specializing in LLMs, RAG pipelines, API integrations, and agentic workflows on advanced Linux machines. Possesses a strong foundation in text-based conversational AI and prompt engineering, bridging enterprise .NET/C# patterns with modern Python AI stacks. Focused on scalable, privacy-preserving ML, intelligent document extraction, and building AI-driven evaluation tools. Optimizes for both GPU and CPU inference with cross-platform flexibility across local models and major AI APIs.

EDUCATION

- **B.Sc. in Information Technology** | Currently Pursuing (Expected Pass: 2027)
- **Intermediate (12th)** | Passed 2024 with 72%
- **High School (10th)** | Passed 2022 with 82.67%

TECHNICAL SKILLS

- **Languages:** C#, **Python**, SQL
- **AI / ML Frameworks:** LangChain, LangGraph, RAG Pipelines
- **LLM & AI APIs:** OpenAI, Gemini, Anthropic (Claude), DeepSeek, Ollama, Prompt Engineering
- **Data Processing & Document AI:** Natural Language Processing (NLP), PyMuPDF, PaddleOCR, Text Analytics
- **Databases & Vector DBs:** PGvector, FAISS, PostgreSQL, MS SQL Server
- **Web / Backend / Infrastructure:** FastAPI, ASP.NET Core, .NET Core 8 MVC, **Linux Machines**, Git

PROFESSIONAL EXPERIENCE

Applied AI Engineer (Part-time & Intern) | ESUOR digital LLP, Mumbai *Jan 2026 – Present*

- Developing scalable AI pipelines and multi-agent orchestration using LangChain and LangGraph for complex text-based conversational AI and intelligent evaluation workflows.

Data Scientist (Part Time & Intern) | ESUOR digital LLP, Mumbai *Oct 2025 – Dec 2025*

- Developed and tested data models for AI-driven applications using Python and machine learning libraries, gaining hands-on experience in AI research and neural network foundations.

Software Developer (Full-time & Intern) | ESUOR digital LLP, Mumbai *Jun 2025 – Sep 2025*

- Built enterprise-level applications using C#, .NET Framework, and ASP.NET. Managed database operations with PostgreSQL, MS SQL Server, Entity Framework, and ADO.NET.

FEATURED PROJECTS

DocChat (Document Intelligence Platform)

- Engineered a secure, air-gapped RAG pipeline (PyMuPDF, ChromaDB, Ollama) with a stateful ASP.NET Core handler for zero-leakage, multi-turn private PDF querying.

Multilingual OCR & Data Extraction

- Built a CPU-optimised text extraction system (Python, PaddleOCR) to accurately extract structured JSON from complex documents across major Indian languages.

NSE Historical Data Downloader

- Built a high-frequency Python scraping engine to bulk-download NSE equity data, bypassing advanced bot-detection using session rotation and spoofed headers.

AWARDS & VOLUNTEERING

- **Awards (2022-2025):** 1. Winner of TechNova 2K25 Technical Quiz; 2. Medhavi Chhatra Samman Purskar (State-level merit); 3. RR Kabel Scholarship recipient; 4. Green Skills & AI Foundation Certified.
- **Volunteering (2024-Pres.):** Student Volunteer @ NSS UPES (Environmental Conservation); NSS Media Co-Head @ Shree L.R. Degree College (Media outreach).