

OM TIWARI

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📁 EXPERIENCE

Gloroots May 2025 – Present
AI/ML Engineer Bengaluru, KA

- Engineered specialized AI agents and internal tools to optimize the recruitment lifecycle, including automated candidate interview assessments and AI-driven sales efficiency workflows.

AI/ML Intern Feb 2025 – May 2025

- Contributed to Recrew.ai (Gloroots) by building an AI-powered coding assessment tool and AI interviewer to streamline technical hiring.

Galleri5 (part of Collective Artists Network) Jul 2024 – Aug 2024
AI Intern Bengaluru, KA

- Built generative AI workflows to create studio-quality apparel imagery for clients like The Souled Store.
- Leveraged Context Engineering and SD/Flux models to ensure brand consistency and reduce production time.

📁 PERSONAL PROJECTS

UNO Arena | *Python, JavaScript* | 🔄 Aug 2025

- Designed Arena to judge performance of LLMs in a UNO game.

Multi-Agent System for Market Research and Use Case Generation | *Python, Langgraph, OpenAI* | 🔄 Apr 2025

- Designed a multi-agent framework where specialized AI agents collaboratively perform market research and ideate potential use cases with the resources links.
- Boosted research efficiency by automating repetitive cognitive tasks and streamlining use case generation workflows.

Instruction Finetuned LLaMA 3.3B | *Python, LLaMA3, Transformers, Unsloth, Groq, PyTorch* | 🔄 Dec 2024

- Fine-tuned a Llama 3.2 3B language model using PEFT techniques (LoRA, gradient checkpointing) and the Unsloth library, resulting in enhanced conversational abilities.
- Utilized the 'The Tome' dataset and applied a chat template for data preparation, enabling the model to effectively engage in multi-turn conversations.

GraphRAG-based AI Doctor | *Python, Llama3, LangChain, Neo4j, Groq, HuggingFace* | 🔄 Sep 2024

- Developed graph-based knowledge systems integrating Neo4j and LangChain.
- Leveraged knowledge graphs for efficient retrieval of relevant information and better context-aware responses using language models.

GenAI-based Security System | *Gemini-Vision, FastAPI, Streamlit, Arduino* | 🔄 Apr 2024

- Created a real-time security system that triggers camera capture on pressure plate activation.
- Used an LLM to analyze images for suspicious activity, enhancing security personnel efficiency.

🔧 TECHNICAL SKILLS

- Languages:** Python, C/C++, JavaScript
- AI Technologies:** Transformers, LangChain, OpenAI, HuggingFace, PyTorch, Scikit-learn, OpenCV
- Cloud/Database Technologies:** ChromaDB, MongoDB, PostgreSQL, Neo4j, AWS
- Web Frameworks:** Django, FastAPI, Flask, Node.js, Bootstrap, TailwindCSS

🎓 FORMAL EDUCATION

Madhav Institute of Technology and Science Gwalior, MP
Bachelor of Technology in Artificial Intelligence and Robotics **CGPA: 8.27/10** Aug 2021 – May 2025

🏆 ACHIEVEMENTS

- 🏆 **MP Young Scientist Congress (Feb 2024):** First Prize – Developed a system to recommend Ayurvedic medicines based on health data.
- 🏆 **Hack The Mountain 4.0 (Oct 2023):** First Runner-Up – Built a virtual electricity trading platform using blockchain principles.