Nikhil Yadav

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Education

Motilal Nehru National Institute of Technology Allahabad	*2024 – 2028*
B.Tech in Electronics and Communication Engineering	*CPI: 8.73 till Sem 2*
Patanjali Rishikul, Prayagraj	*2023*
CBSE Class XII	*Percentage: 94%*
Patanjali Rishikul, Prayagraj	*2021*
CBSE Class X	*Percentage: 96%*

Projects

NextStep – AI Career & Interview Copilot 🌐 ⌗

End-to-End AI Platform for Career Growth & Interview Prep

- Tech stack: Next.js, Express.js, Flask, PostgreSQL, MongoDB, Qdrant, Redis, TensorFlow, OpenCV, RoBERTa, Deepgram, Gemini.
- AI platform with resume parsing, ATS scoring, career roadmaps, job matching, interview prep, and skill assessment.
- Real-time multimodal interview evaluator analyzing content, voice, and body language with adaptive feedback and RAG-powered AI copilot.

CoPilotX – Multi-Agent AI Startup Workspace 🌐

- AI agents (CEO, CTO, CMO, CFO) collaborate in a Slack-like UI to help users build and grow startups.
- Tech stack: React, LangGraph, Mermaid, Markdown
- Designed agents with distinct roles using LangGraph + ReAct workflows.
- Implemented export system to auto-generate ZIP packs with business plans, slides, logos, and tech specs.

Contextual File Searcher (MCP) ⌗

- Developed a Model Context Protocol (MCP) tool for intelligent file discovery using semantic and keyword relevance.
- Built with Python, Sentence-Transformers, PyPDF2, Openpyxl, and FastMCP; supports diverse formats.
- Implemented hybrid scoring combining semantic similarity, filename matching, and keyword.

Technical Skills

Programming Languages: Python, C, C++, HTML5, CSS3, JavaScript
Frontend Technologies: React.js, Next.js, HTML5, CSS3, Tailwind CSS, Redux, Three.js, React Three Fiber
Backend Technologies: Node.js, Express.js, MongoDB, PostgreSQL, Supabase, Redis, FastAPI, Cloudinary
Machine Learning & AI: TensorFlow, Scikit-learn, Pandas, NumPy, OpenCV, Deep Learning, LangChain, LangGraph
DevOps & Tools: Git, GitHub, Docker, Postman

Positions of Responsibility

- **Web Team, Entrepreneurship Cell (E-Cell), MNNIT:** Contributed to the development of *RENAISSANCE*, the official event website.
- **Student Mentor** Student Mentorship Program (SMP), MNNIT

Achievements

- **First Place:** Turing's Playground (CaptchaCracker, Feb 2025), RoboSoccer (Avishkar, Nov 2024)
- **Second Place:** Hacktivate (SafeStride, Apr 2025)

Certifications

- [Machine Learning by Andrew Ng — Coursera (Dec 2024 – Mar 2025)](#)