

Nikhil Yadav

✉ nikhil.yadav20244117@gmail.com ☎ +91 7518330045 📁 Portfolio 🌐 Nikhil-Yadav15 in nikhil-yadav

Education

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

Projects

CareSight – Eye-Controlled Connected Care ◦ Enables ventilated and immobile patients to communicate via eye movements. ◦ Tech stack: Next.js, Supabase, face-api.js. ◦ Features: Admin/Nurse dashboards, patient entertainment; structured relational DB linking hospitals, nurses, patients, medications, and alerts.	🌐
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.	🌐
StorageCube – Smart Cloud Storage Platform ◦ Built a secure cloud storage app with file management, real-time insights, and Stripe payments. ◦ Tech stack: Next.js, Tailwind CSS, MongoDB, Cloudinary, Stripe, JWT, Nodemailer ◦ Implemented OTP-based auth, file upload/share/rename, and usage tracking. ◦ Integrated Stripe for plan upgrades with webhook support and responsive UI.	🌐
Contextual File Searcher (MCP) ◦ Model Context Protocol tool for intelligent file discovery using semantic and keyword relevance. ◦ Tools: Python, Sentence-Transformers, PyPDF2, Openpyxl, FastMCP, JSON ◦ Supports diverse formats (.pdf, .docx, .xlsx, .txt, code files) ◦ Computes hybrid relevance scores using semantic similarity, filename matching, and keyword frequency.	🔗

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
Specializations: Full Stack Development, Machine Learning, GenerativeAI

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)