Aman Paswan

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🔗 github.com/aman0603

Technical Skills

Programming Languages: Python, C/C++, JavaScript, SQL, Golang
Frameworks & Libraries: React.js, Node.js, Express.js, PyTorch, TensorFlow, Scikit-learn, LangChain
Generative AI: LLMs, Agentic Workflows (MCP), RAG, Fine-tuning, Prompt Engineering, Hugging Face
Tools & Platforms: Docker, Git, PostgreSQL, MongoDB, MySQL, Redis, Kafka, Postman, FAISS

Education

Jaypee Institute of Information Technology, Noida   2022 – 2026
B.Tech in Computer Science and Engineering

Experience

Naxcuure Healthcare Pvt Ltd   May 2025 – July 2025
Full Stack Developer Intern

- Developed a compliance management system automating regulatory workflows, reducing manual tracking by **40%**.
- Built secure MERN modules supporting **100+ compliance records** with real-time dashboards.
- Designed REST APIs and authentication flows; optimized queries to improve response times by **30%**.
- Collaborated with cross-functional teams to meet healthcare compliance standards.

PearlThoughts   July 2025 – August 2025
Backend Developer Intern

- Built a production-ready NestJS backend for a patient–doctor appointment system serving **500+ users**.
- Designed RESTful APIs with validation and centralized error handling, reducing failures by **25%**.
- Modeled PostgreSQL schemas and managed migrations using TypeORM across **10+ entities**.
- Implemented JWT-based authentication with role-based access control (RBAC).

Projects

DengueScope | *Python, Scikit-learn, TensorFlow*   github.com/aman0603/projj

- Developed an AI system forecasting dengue outbreaks across **20+ Brazilian cities** using **15 years** of epidemiological and climatic data.
- Applied PCA/PLS feature reduction and benchmarked CatBoost, LSTM, TCN, and TFT models achieving **85–90% accuracy**.
- Integrated Google Trends signals, improving prediction precision by **20%** and enabling **1–3 month** early warnings.

ConvoSphere | *React.js, FastAPI, MongoDB, Redis*   github.com/aman0603/ConvoSphere

- Engineered an outbound sales intelligence assistant combining OSINT enrichment with local LLM (Ollama) insights and Google Gemini coaching.
- Designed a multi-stage OSINT workflow for validated lead and company intelligence generation.
- Enabled real-time messaging via Telegram integration and WebSockets-based dashboard streaming.

Voice RAG Agent | *FastAPI, FAISS, BM25, Llama 3*   https://github.com/aman0603/voice-agent-Articence

- Engineered a real-time Voice RAG system using React 19 and FastAPI, achieving **450ms TTFB** via bi-directional audio streaming with Server-Sent Events (SSE).
- Implemented a hybrid retrieval pipeline combining **FAISS, BM25, and Cross-Encoder reranking** to improve context accuracy for large technical manuals.
- Optimized latency and AI cost using a **dual-LLM fallback architecture (Llama 3 → Gemini)** with zero-latency browser-based TTS, eliminating **3s+ audio delay**.