

Anshum Dev AI / ML Engineer

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AI Engineer with hands-on experience building production-ready enterprise AI systems, Retrieval-Augmented Generation (RAG) applications, and scalable backend services. Experienced in designing AI assistants, vector search pipelines, REST APIs, and enterprise software solutions using Python, FastAPI, and Large Language Models. Skilled in NLP, semantic search, SQL optimization, and ERP customization with a strong focus on solving real-world business problems.

Technical Skills

- **Programming** — Python | JavaScript | TypeScript | Java | SQL
- **AI / ML** — Machine Learning | Scikit-learn | RAG | LLMs | Prompt Engineering | NLP | SHAP | Feature Engineering | Vector Search | Semantic Search | Embeddings
- **Backend** — FastAPI | REST APIs | Node.js | Express.js | JWT Authentication | API Design
- **Frontend** — React | Next.js | Tailwind CSS | HTML | CSS | Framer Motion
- **Databases** — MySQL | PostgreSQL | MongoDB | Qdrant
- **DevOps & Tools** — Git | GitHub | Docker | Postman | Linux | Cloudinary | Vercel | AWS (Basics)
- **Enterprise Technologies** — ERPNext | Frappe Framework | Manufacturing | Quality Management | Inventory | Sales | Purchase

Education

B.Tech - Computer Science & Technology

L.J. Institute of Engineering & Technology

08/2023 – 06/2027 | Ahmedabad, Gujarat

Projects

Enterprise AI Chatbot Platform

Python, FastAPI, Qdrant, RAG, LLM APIs, MySQL, JWT, REST APIs

- Built an enterprise AI assistant capable of answering organizational queries using Retrieval-Augmented Generation.
- Developed semantic retrieval pipelines with vector search and role-based access control.
- Designed modular backend architecture for authentication, chat, retrieval, analytics, and report generation.
- Implemented SQL generation, metadata filtering, caching, and enterprise document indexing.

Chess Mentor AI

Python, FastAPI, Stockfish, LLM, React, TypeScript

- Developed an AI-powered chess learning platform that combines chess engine analysis with conversational AI.
- Generates personalized move explanations, tactical suggestions, opening guidance, and post-game feedback.
- Designed interactive learning modules to help players understand strategy instead of only suggesting best moves.
- Built scalable backend APIs for game analysis and AI-powered coaching.

Autonomous Customer Churn Prediction Platform

Python, Pandas, Scikit-learn, XGBoost, SHAP, FastAPI

- Built automated ML pipeline for churn prediction using Logistic Regression and XGBoost.
- Engineered feature engineering, SHAP explainability, and decision engine for business recommendations.
- Developed FastAPI inference service for production deployment.

Professional Experience

AI Intern

NivaSync Infotech Pvt. Ltd

04/2026 – Present | Ahmedabad

- Designed and developed an enterprise AI assistant using Retrieval-Augmented Generation (RAG) for intelligent knowledge retrieval from organizational data.
- Built **REST APIs** using FastAPI for authentication, chat processing, document retrieval, analytics, and report generation, document retrieval, and AI response generation.
- Implemented semantic search pipelines using Qdrant Vector Database, embeddings, metadata filtering, and role-based document access.
- Developed secure APIs with JWT authentication, pagination, report generation, conversation history, and analytics.
- Integrated Large Language Models through API-based inference to generate accurate, context-aware responses.
- Designed automated synchronization pipelines for **thousands of enterprise records**, enabling semantic indexing and faster AI-powered retrieval.
- Customized ERPNext by developing reports, workflows, dashboards, business logic, and module-specific enhancements.
- Customized and enhanced **3+ ERP modules**, including Manufacturing, Quality, Inventory, Purchase, Sales, HR, and Training, by implementing reports, workflows, business logic, and automation.
- Optimized SQL queries and backend performance to improve retrieval speed and overall system efficiency.
- Collaborated with AI and backend teams to deliver scalable enterprise software solutions.

Full Stack Developer

SwiftFolios

08/2025 – 10/2025 | Ahmedabad

- Worked as a Full-Stack / React Developer at SwiftFolios, a startup focused on building scalable MERN-stack applications.
- Actively contributed to the development of responsive and reusable frontend components using React and Tailwind CSS, ensuring cross-device compatibility and clean UI/UX.
- Integrated REST APIs with the frontend, implemented authentication and authorization flows, and handled data management using MongoDB.
- Participated in API testing and debugging using Postman, optimized application performance, and supported deployment of production ready applications on AWS.