

SHIVOM HATAALKAR

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AI/LLM Engineer

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SUMMARY

LLM / GenAI Engineer specializing in fine-tuning and deploying large language models for real-world applications. Experienced in building AI-powered full-stack systems, RAG pipelines, and agentic workflows. Hands-on expertise in LoRA/QLoRA-based training, Hugging Face, and cloud-based GPU infrastructure. Passionate about developing scalable, business-impactful AI solutions in domains like healthcare, finance, and HR automation.

EDUCATION

Bachelors of Engineering, University of Mumbai **2022-2025**
B.E. in Artificial Intelligence & Machine Learning, and Honors in Cyber Security

Diploma in Computer Engineering, Thakur Polytechnic **2019-2022**

EXPERIENCE

Agentic AI Engineer Intern, Buzzworks Business Services Pvt. Ltd. **Feb 2026 - Present**

- Designed and implemented agentic AI workflows using n8n to automate compliance processes
- Integrated LLM-based decision systems for intelligent document handling and compliance validation
- Built scalable automation pipelines reducing manual HR operations

Machine Learning Intern, Prodigy Infotech **Mar 2024- Apr 2024**

- Developed and evaluated ML models including Linear Regression, SVM, and K-Means on structured datasets
- Performed data preprocessing, feature engineering, and model evaluation to improve prediction performance

Web Development Intern, Nibodh Educare **Aug 2021 - Oct 2021**

- Developed and maintained responsive web application components across frontend and backend.
- Worked with HTML, Tailwind CSS, React.js, Python, Django, and MySQL for full-stack development.

PROJECTS

Elixir-v2 — 3B-Parameter Mental-Health Conversational Model - 😊 [View Model](#) | [GitHub](#)

- Fine-tuned Llama-3.2-3B-Instruct using QLoRA (nf4 + double quantization) for domain-specific conversational AI
- Curated and structured 23.7K multi-turn and single-turn dialogues, ensuring safe and ethical AI behavior
- Designed evaluation framework using BLEU, ROUGE-L, BERTScore, Perplexity, Toxicity, and diversity metrics
- Trained the LLM and tested inference workflows on cloud GPU infrastructure (RunPod - RTX 3090)
- Demonstrated strong alignment with enterprise GenAI use cases, model governance, and responsible AI

Finance Tracker — AI-Enhanced Budgeting Tool - [Live](#) | [GitHub](#)

- Built a full-stack finance tracker for managing income, expenses, and budgets with manual data entry and real-time insights.
- Integrated Mistral-7B via HuggingFace API to generate AI-driven suggestions for optimizing spending habits.
- Developed using Next.js, TailwindCSS, Clerk (auth), and Drizzle ORM for database management.
- Highlighted skills in AI integration, API communication, and front-end + backend development.

Pulse Fitness — Intelligent Fitness & Nutrition Assistant - [Live](#) | [GitHub](#)

- Designed and deployed an AI-based fitness assistant that tailors exercise and diet routines using user-provided health and goal metrics.
- Integrated Gemini LLM through Vapi for adaptive response generation.
- Built front-end with Next.js + TailwindCSS, managed authentication using Clerk, and used Convex as a backend service.
- Showcased seamless combination of AI model reasoning, contextual user input, and UI-driven personalization.

SKILLS

- AI / ML & GenAI:** LLMs, Generative AI, RAG, Prompt Engineering, Embeddings, PEFT, LoRA, QLoRA, NLP, ML
- Data & Analytics:** Python, SQL, Pandas, NumPy, Exploratory Data Analysis (EDA), Feature Engineering, Model Evaluation
- Frameworks & Tools:** Claude, PyTorch, Hugging Face, Transformers, N8N Workflows, LangChain, Scikit-learn

SKILLS

- **Cloud & Platforms:** AWS (Amazon Bedrock – pursuing), Google Cloud Platform, Hugging Face APIs, Docker & Docker Compose
- **Web & Backend:** Next.js, Tailwind CSS, Clerk, REST APIs, Django, MySQL, FastAPI
- **Systems:** Linux, Git

CERTIFICATIONS

- **SAP Labs / Edunet Foundation** - Advance Course in Machine Learning, IoT, Deep Learning & Computer Vision
- **AWS Academy Graduate** - Generative AI Foundations
- **Google Cloud Career Readiness Associate Cloud Engineer Track**
- **AWS Academy Graduate** - AWS Academy Introduction to Cloud
- (In Progress) **IBM RAG and Agentic AI Professional Certification**
- (In Progress) **Google Cloud Platform (Vertex AI, Gemini)**