

SANKALP SAHU

CHENNAI, INDIA

CONTACT

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SKILLS

- Languages:** Python, Java, JavaScript
- Backend:** FastAPI, Flask, Firebase
- Generative AI & LLMs:** LangChain, RAG, AI Agents (ReAct), LLMs (Mistral, Llama), SLMs, Hugging Face Transformers, Prompt Engineering
- Machine Learning:** NLP, BERTScore, Scikit-learn, PyTorch (basics), NumPy
- Databases & Tools:** Firebase Firestore, Git, Docker (basics), Gradio, Jupyter Notebook, Cursor, Windsurf
- Other:** REST APIs, Data Structures, Algorithms, OOP, VS Code, IntelliJ

PROFESSIONAL EXPERIENCE

App Development Intern – SkillVertex Jan 2024 – Mar 2024

- Built and deployed mobile and web applications focused on real-world use cases.
- Integrated Firebase Authentication and Database services.
- Applied UI/UX principles and responsive design practices.

PROFILE

Final-year B.Tech CSE student and aspiring Junior AI/ML Engineer with hands-on experience building production-ready LLM and RAG applications using LangChain, Hugging Face and FastAPI. Passionate about shipping end-to-end GenAI solutions.

PROJECT EXPERIENCE

- Legal Contract Analyzer (AI / NLP)** (LINK) JAN- MAY 2025
(Gradio, Transformers, word2Vector, Sckit-Learn)
 - Built an AI-powered system to summarize legal contracts, extract key clauses, and generate questions automatically.
 - Implemented answer evaluation using BERTScore and auto-correction via text-generation models.
 - Designed a Gradio-based web interface for legal students.
 - Processed 50+ sample contracts with 87% BERTScore accuracy
- AI Code Refactor & Optimization(LLM-Powered)** (LINK) DEC 25 -MAR 26
(Local LLM, Qwen 2.5 14B, Groq, Docker,Pytorch)
 - Built and deployed RefactorAI, an AI-powered code refactoring assistant that analyzes uploaded Python files, detects anti-patterns/security issues, and generates optimized, PEP8-compliant code with type hints.
 - Integrated LLMs (Qwen2.5-Coder via Ollama locally or Llama-3.1 via Groq) with LiteLLM + Instructor for structured output, combined with static analysis tools (Ruff, Bandit) and AST parsing for per-block explanations and 0-100 quality scoring.
- LLM-Powered Conversational AI (Mistral)** (LINK) DEC 2024
(Langchain, Mistral 7b, Local host, Ollama)
 - Developed an interactive chatbot using LangChain and LLMs with contextual conversation handling
 - Designed backend logic for prompt chaining and response management.

EDUCATION

B.Tech in Computer Science Engineering Sept 2022 - Present
SRM Institute of Science and Technology, Chennai