Sanatan Khemariya

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Education

Indian Institute of Technology, Guwhati

Credit-Linked Program in Data Science

Jan 2025 - Jan 2026 Guwahati, India

Jaypee University of Engineering and Technology

Bachelor of Technology in Computer Science and Engineering

August 2022 - July 2026

Guna, India

Key Courses: Operating Systems, Computer Networks, Data Structures, Algorithms, Machine Learning, Databases

Technical Skills

Languages Python, C++, Swift
Frameworks FastAPI, LangChain
Databases Supabase (PostgreSQL), MySQL
Tools Streamlit, Git, Github, Langflow, Xcode

Libraries PyTorch, TensorFlow, Scikit-learn, OpenCV, NumPy, Pandas OS MacOS, Windows

Certifications

- Kaggle Pandas for Data Analysis
- Tata Technologies Introduction to Generative AI

Projects

Azazel - Supercharging Legacy Models

Python, OpenAI, FAISS, LangChain, Streamlit

— Project Link

- Optimized legacy models with multimodal AI capabilities, driving a 3 times boost in performence and achieving a 25% increase in response accuracy.
- Reduced API costs by 30% using GPT-40-mini for multimodal capabilities and efficient prompt engineering
- Optimized LangChain RAG for context-aware responses; integrated GPT-4o-mini vision for image analysis and code debugging
- Developed comprehensive Streamlit UI with real-time web search, multilingual support, and speech-to-text capabilities

Easy-Notes - Effortless Writing

Python, FastAPI, TensorFlow, Hugging Face, Supabase

— Project Link

- Trained an LSTM-based next-word prediction model achieving 66% accuracy for enhanced writing experience
- Developed and fine-tuned a Transformer based English to Hindi translation model reaching 94.6% translation accuracy
- Optimized PostgreSQL database architecture with Supabase, reducing query response times by 25%
- Engineered RESTful API endpoints with FastAPI, Uvicorn & Jinja2 templates for seamless frontend-backend integration
- Implemented low-latency ML model serving with average prediction time under 100ms for real-time text suggestions

ChurnMonitor

Python, TensorFlow, Scikit-learn, Pandas, Streamlit

— Project Link

- Engineered machine learning model achieving 87% accuracy in predicting customer churn for the banking sector
- Trained and validated model on 50,000+ customer records with comprehensive feature engineering
- Created interactive Streamlit dashboard delivering real-time insights and visualization of key churn prediction factors
- Developed automated data preprocessing pipeline reducing data preparation time by 20%

Achievements

- Solved 300+ LeetCode problems, demonstrating strong algorithmic thinking and data structure proficiency
- Led a team to the National Tata Innovant (GenAI Hackathon), being the only selected team from Madhya Pradesh out of 2600+ competing teams