

# SWARADA DESHPANDE

## AI DEVELOPER

### CONTACT

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- Sambhajinagar (Aurangabad), Maharashtra

### SKILLS

- Programming Languages: Python, C++  
JavaScript, SQL, HTML, CSS
- Frameworks & Libraries: Flask, FastAPI, PyQt, Streamlit, TensorFlow, Scikit-learn, NumPy, Pandas
- Machine Learning & NLP: Sentence Transformers, FAISS, LlamaCpp, HuggingFace Transformers, LangChain
- Databases & Storage: SQLite, MySQL, SQLAlchemy
- Concepts: Data Structures & Algorithms (Python), Offline LLM Deployment, Vector Search, Semantic Search, GUI Development, API Integration

### LANGUAGES

- English , Hindi , Marathi

### ACHIEVEMENTS

- SIH college level qualification 2023.
- SIH college level qualification 2024.
- maha- metro video analytics hackathon 2nd round qualified

### PROFILE

Passionate Software Developer skilled in building scalable backend systems using Flask (Python), designing RESTful APIs, and managing databases. Experienced in deploying applications on cloud platforms (AWS, Azure) and integrating basic Machine Learning models to enhance functionality. Strong focus on clean architecture, performance optimization, and secure coding practices. Committed to writing high-quality code and contributing to impactful projects.

### WORK EXPERIENCE/PROJECTS:

#### Offline LLM Travel Agent - NomadGPT (in progress):

Spearheaded the development of an offline AI travel assistant leveraging LlamaCpp and the Phi-2 GGUF model to deliver real-time, location-aware recommendations without internet access. Engineered a robust stack combining FAISS (for vector-based semantic search), SQLite (for local structured storage), and PyQt (for a polished desktop UI), alongside MBTiles for offline map integration. Curated a rich dataset covering 12 key travel categories across 36 districts of Maharashtra. Designed for performance on edge devices, this project demonstrates efficient deployment of large language models in low-resource environments.

#### Nova Chat - Intelligent Code Assistant :

Nova ChatBot is a web-based AI assistant built using Flask that provides intelligent code suggestions and natural language responses to developer queries. Powered by a local lightweight LLM (such as Phi-2 via llama-cpp-python), it processes user inputs through a REST API and returns context-aware code snippets or explanations in Python, JavaScript, and other languages. The chatbot interface is designed with HTML, CSS, and JavaScript to create an interactive user experience. This project demonstrates my understanding of basic NLP concepts such as tokenization, embeddings, and prompt engineering, and also reflects my skills in building REST APIs, deploying lightweight language models offline, and integrating backend AI models with a user-friendly frontend. Nova not only strengthens my foundation in NLP but also reflects practical software development and system design abilities.

### EDUCATION

#### Bachlor of technology (B.tech) in CSE ( third year 6th sem ) (Artificial intelligence and machine learning)

College GH Rasoni college of Engineering and Management, Pune;  
CGPA: 8.35 ( till 6th semester)  
10th percentage : 93 ( p.s.b.a. english school, Aurangabad)  
12th percentage : 82 (Sarosh junior college, aurangabad)