Sandip Baste - AI/ML Developer Resume

Contact Information

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Education

K.K.Wagh Art's, Science and Commerce College, Pimpalgaon (B), Nashik, Maharashtra
M.Sc. (Computer Science) | CGPA: 7.91 | Aug 2023 - Jun 2025

K.K.Wagh Art's, Science and Commerce College, Pimpalgaon (B), Nashik, Maharashtra
B.Sc. (Computer Science) | CGPA: 8.27 | Aug 2020 - Jul 2023

Professional Experience

AI/ML Developer Intern | Application Square Infotech, Nashik | Jun 2025 - Present
- Designed and developed chatbot & voicebot applications using LLMs, LangChain, and RAG for context-aware interactions.
- Integrated real-time speech recognition (Google Speech API) & natural-sounding TTS (gTTS, pyttsx3).
- Built scalable FastAPI backends with modular endpoints, ensuring low-latency ML inference.
- Developed custom AI pipelines combining embeddings, retrievers, memory chains, and RAG workflows.
- Improved chatbot response accuracy by 25% through better context handling.

Projects

AI WhatsApp Chatbot | Python, Gemini API, PyAutoGUI, Pyperclip
- Built a human-like chatbot for WhatsApp Web using Gemini API with real-time contextual understanding.
- Automated chat reading & responding without WhatsApp Business API.
- Implemented loop-prevention logic and natural typing simulation.

AI Voice Assistant - Nora | Python, Gemini API, SpeechRecognition, gTTS, pyttsx3
- Developed a smart voice assistant with context-aware conversations.
- Added voice-controlled functions: web search, news updates, navigation, music playback.
- Achieved 90%+ speech recognition accuracy.

Video Insight Extractor | Python, FFmpeg, Faster-Whisper, FastAPI, Gemini API
- Created a video-to-text system using FFmpeg for audio extraction & Faster-Whisper.
- Enabled prompt-based querying of specific video scenes.
- Supported large file handling & multi-format compatibility.

Technical Skills

Programming Languages: Python
AI/ML & LLMs: LangChain, Hugging Face, Gemini, OpenAI, Transformers, RAG, NLP
Frameworks & Libraries: FastAPI, scikit-learn, TensorFlow, PyTorch

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Databases: MySQL, MongoDB
Tools: Git, GitHub, Postman, Dialogflow CX
Deployment: REST APIs, Cloud Deployment (Basic)