

Sandip Baste

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SUMMARY

AI/ML Developer with a strong specialization in **Generative AI** and **Large Language Models (LLMs)**. Proven ability to build intelligent, real-time AI solutions, including **chatbots**, **voice assistants** and **video insight systems**. Proficient in **LangChain**, **OpenAI APIs**, **Gemini**, **FastAPI** and developing scalable **RAG pipelines**. Seeking to leverage expertise as an **AI Engineer**, **NLP Developer** or **Backend Python Developer** to deliver intelligent and real-time AI solutions.

PROFESSIONAL EXPERIENCE

AI/ML Developer Intern

May 2025 - Present

Application Square Infotech, Nashik

- Designed and developed dynamic **chatbot** and **voicebot** applications using **LLMs** and **RAG** techniques for natural context-aware interactions on web and voice platforms.
- Integrated real-time speech recognition and **TTS** using **gTTS**, **Google Speech API** and **pyttsx3**.
- Built scalable **FastAPI** backends with modular chatbot-specific endpoints supporting low-latency **ML model** inference and retrieval-based generation.
- Created custom AI pipelines combining **embeddings**, **retrievers**, memory **chains** and **RAG** workflows to deliver accurate and context-sensitive responses.

PROJECTS

AI WhatsApp Chatbot | Python, Gemini API, PyAutoGUI, Pyperclip

- AI-powered **WhatsApp chatbot** that enables automated, human-like and context-aware conversations.
- Developed a conversational chatbot for WhatsApp Web using **Gemini API**, **PyAutoGUI** and **Pyperclip** to simulate natural interactions such as typing effects and loop-prevention.
- Enhanced user engagement by 95% through real-time, human-like and context-aware conversations

AI Voice Assistant – Nora | Python, Gemini API, SpeechRecognition, pyttsx3, ReactJS, Tailwind CSS

- Built an AI-powered voice assistant with context-aware dialogue using Gemini API, voice input via **SpeechRecognition** and **TTS** output with **pyttsx3**
- Integrated real-time features like **web search**, music playback and news updates for multi-command task automation.
- Developed a responsive frontend using **ReactJS** and **Tailwind CSS** enhancing user interaction and visual experience.

Video Insight Extractor | Python, FFmpeg, Faster-Whisper, FastAPI, Gemini API

- Extracting insights from long videos is time-consuming and lacks efficient searchability.
- Designed a system to extract audio via **FFmpeg**, transcribe with **Faster-Whisper** and process queries using **Gemini API** through a **FastAPI** backend for natural-language Q&A.
- Enabled users to quickly retrieve context-specific insights from large video files, improving accessibility and reducing information search time.

EDUCATION

K.K. Wagh Art's, Science and Commerce College Pimpalgaon (B).

M.Sc. (Computer Science) | CGPA: 7.91

Nashik, Maharashtra

August 2023 – June 2025

K.K. Wagh Art's, Science and Commerce College Pimpalgaon (B).

B.Sc. (Computer Science) | CGPA: 8.27

Nashik, Maharashtra

August 2020 – July 2023

TECHNICAL SKILLS

Languages : Python

AI/ML & LLMs : Generative AI, RAG, NLP, AI Agents, LangChain, LangGraph, OpenAI, Hugging Face, Gemini

Framework & Libraries: FastAPI, ReactJS, NumPy, Pandas, REST APIs

Databases : MySQL, MongoDB, Vector Databases (Chroma, FAISS)

Tools & Version Control : Dialogflow CX, Postman, Git, GitHub, Docker, Vercel, Netlify