

# ABHISHEK KUMAR SINGH

GENAI | PYTHON | FRONTEND DEVELOPER

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Sasaram, Bihar

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## SUMMARY

BCA student focused on Generative AI with hands-on experience building AI chatbots, voice assistants, and document query tools. Proficient in LangChain, LangGraph, OpenAI/Gemini APIs, Qdrant, Neo4j, Mem0 and FastAPI. Skilled in prompt engineering, semantic search, and integrating AI into modern web apps using React and Streamlit.

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## SKILLS

**Programming languages:** Python, JavaScript, TypeScript

**Generative AI:** Prompt Engineering, RAG, Fine-tuning, AI tracing, LangGraph, LangChain, MCP

**Frameworks & Libraries:** React, Django, Streamlit, FastAPI

**Databases:** MongoDB, MySQL, Vector Databases, Graph Databases

**Tools:** Git, Docker, Mem0

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## WORK EXPERIENCE

**Trending News Video Generator** Python, Gemini API, NewsAPI, Pexels API, MoviePy, gTTS

- Built an automated tool that generates short news videos using trending headlines, AI generated articles, and voiceovers.
- Integrated Gemini for content generation, NewsAPI for headlines, Pexels for images, and MoviePy + gTTS for video and audio creation.

**ChatTerminal** Python, google recognize, Gemini, OpenAI TTS, LangGraph, MongoDB

- Developed a voice-powered AI assistant capable of listening to commands, summarizing requests, executing terminal commands, and providing real-time voice responses.
- Integrated google recognize for voice recognition, Gemini for summarization, and OpenAI TTS for speech output.
- Managed workflows with LangGraph and state with MongoDB for session tracking.

**AskMyPDF** Python, LangChain, Streamlit, Qdrant, Gemini, OpenAI SDK

- Created an AI chatbot capable of querying and extracting answers from PDFs using LangChain, Qdrant, and Gemini/OpenAI SDK.
- Implemented document chunking and semantic search for accurate contextual answers with page references

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## EDUCATION

**Bachelor of Computer Applications (BCA)**

Manipal University Jaipur

May 2022 - March 2025

**Intermediate (I.Sc)**

Awadhoot Bhagwan Ram College, Sasaram

May 2018– March 2020