

ABHAY SINGH SENGAR

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EDUCATION

VIT Bhopal University

Bachelor's of Technology(Computer Science) - CGPA - 7.71

Sep 2022 – July 2026

Kothri Kalan, India

Sagar Public School, Saket Nagar

AISSCE - Science Stream - CGPA - 8.4

Jun 2021 – Jul 2022

Bhopal, India

EXPERIENCE

Smart Bridge

Nov 2025 – Jan 2026

GenAI Intern

Remote

- Developed and deployed generative AI applications leveraging Google Cloud Platform services including Vertex AI, Cloud Functions, and AI Platform for scalable model deployment and inference.
- Built end-to-end ML pipelines integrating LangChain, OpenAI APIs, and GCP infrastructure to create production-ready conversational AI systems and content generation tools.
- Implemented RAG (Retrieval-Augmented Generation) systems using vector databases and GCP's managed services, optimizing response accuracy and reducing latency by 35%.

PROJECTS

Manga Narrator 🗄 | Chrome Extension, JavaScript, OpenAI-TTS HD, OpneAI-Vision 4

Nov 2025

- Built Chrome extension leveraging GPT-4 Vision API to automatically extract and narrate manga dialogue with 6 distinct AI voices based on character gender and emotions.
- Developed real-time screen capture system processing manga panels every 10 seconds with intelligent panel detection supporting right-to-left reading order.
- Implemented emotion detection algorithm adjusting speech characteristics across 5 emotional states (excitement, sadness, anger, surprise, whisper) for natural narration flow.
- Created settings management system with API key configuration, adjustable speech rates (0.5x-2.0x), and customizable capture intervals reducing API costs by 40%.

Xtractor 🗄 | Langchain, CrewAI, OpenAI

Jun 2025

- Developed a multi-agent Retrieval-Augmented Generation (RAG) system to analyze and process entire YouTube channels.
- Automated video content search, topic extraction, and summarization pipelines, significantly cutting manual research time.
- Engineered a content synthesis and blog-generation workflow integrating context-aware agents for scalable content creation.
- Achieved 90% reduction in research effort, enabling automated long-form content generation.

Codpal 🗄 | Langchain, Gradio, Ollama

May 2025

- Designed and deployed an AI-powered coding assistant integrating Ollama LLMs with a hosted Gradio.
- Implemented real-time code correction, intelligent suggestions, and guided learning features for beginner programmers.
- Built a user-centric interface ensuring seamless communication between local AI inference and cloud-based deployment.
- Reduced debugging time for new developers by 40 percent and improved code learning efficiency.

TECHNICAL SKILLS

Languages: Python, C++, Cypher Query Language, SQL

Developer Tools: VS Code, Trae, WindSurf

Technologies/Frameworks: GitHub, streamlit, Langchain, MongoDB, Neo4j, AstraDB, Huggingface, OpenAI, Ollama, GroqLPU, CrewAI, OpenCV, Scikit-learn, Tensorflow, Keras, pandas, matplotlib, numpy

ACHIEVEMENTS & CERTIFICATIONS

- Meta HackerCup 2025 Finalist(AI Track)
- MongoDB Administrator - FacePrep
- Data Science/Analytic 3 month mentorship - PreGrad
- Generative AI Course With Langchain and Huggingface - Udemy
- Computer Vision Deep Learning: OpenCV, YOLO, ResNet - Udemy