

ABHIJIT SANTRA

AI/ML Engineer | Generative AI Developer

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PROFESSIONAL SUMMARY

Computer Science graduate specializing in Artificial Intelligence and Machine Learning with hands-on experience in Python, Machine Learning, NLP, Generative AI, and Retrieval-Augmented Generation (RAG). Developed AI-powered projects using LLMs, CrewAI, FastAPI, and LangChain. Eager to apply technical skills and contribute to innovative AI solutions in a professional environment.

SKILLS

Programming: Python, C++

AI / ML: Machine Learning, Deep Learning, NLP, RAG, Agentic AI, Transformers

Frameworks & Libraries: Scikit-learn, CrewAI, FastAPI, TensorFlow, NumPy, Pandas, Matplotlib

Retrieval & Search: FAISS, Sentence Transformers, Semantic Search

Tools: Git, GitHub, MySQL

PROJECTS

Vendor News Analytics | Oct 2025 | [Project Link](#)

Tech: Python, NLP, Transformers, DistilBERT, GPT-4o-mini

- Designed and built a solo, end-to-end NLP pipeline that automatically extracts, summarizes, and scores sentiment on financial vendor news articles.
- Cut manual news-review effort by ~70% by replacing manual reading and tagging with automated extraction and sentiment classification.
- Combined DistilBERT for fast sentiment classification with GPT-4o-mini for summarization, balancing latency and output quality.

AI Agent-Based Landing Page Generator | July 2026

Tech: CrewAI, Gemini 2.5 Flash, Mistral 7B-Instruct, FastAPI

- Independently researched and built a multi-agent system with CrewAI, coordinating dedicated agents for research, copywriting, SEO structuring, and UI generation.
- Generates a complete, responsive landing page end-to-end in 3–5 minutes with no manual editing required.
- Diagnosed and resolved recurring LLM reliability issues (empty responses, rate limiting) by tuning model parameters, shortening prompts, and adding retry logic — improving pipeline success rate.

Multi-Format RAG Question-Answering System | Mar 2026 | [Project Link](#)

Tech: Python, LangChain, FAISS, Sentence Transformers, Gemini LLM

- Built a Retrieval-Augmented Generation system for question answering, then extended it beyond PDF to support Word, JSON, TXT, CSV, and Excel documents.
- Implemented semantic search with FAISS and Sentence Transformers to return context-aware, source-attributed answers across mixed document types.
- Currently evaluating larger sentence-transformer models to improve keyword-retrieval accuracy on edge-case queries.

EXPERIENCE

Machine Learning Trainee — Intel Unnati Industrial Training Program

Jul 31 – Aug 13, 2025

EDUCATION

Brainware University

B.Tech, Computer Science and Engineering (AI/ML) — CGPA 8.76 — July 2026

Malpar Vivekananda Sikshaniketan (WBCHE)

Higher Secondary Examination, 2022 — 94%

Chandkuri Union High School (WBBSE)

Secondary Examination, 2020 — 85%

CERTIFICATIONS

- AI-Machine Learning Engineer Certificate Course — Reliance Foundation Skilling Academy, via Skill India Digital (NSDC) — 150 hours, June 2026