

# Abhishek Dasgupta

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## Education

**Dr. B. C. Roy Engineering College Durgapur**

B.Tech in Computer Science Engineering (CGPA: 8.71 till 7th Sem)

Expected May 2025

Durgapur, West Bengal

## Experience

**Raccoon AI**

Software Engineer Intern

January 2025 – Present

Bangalore, Onsite

- Joined the team as a founding engineer intern and contributed to building an autonomous AI browser agent using Playwright. Designed core decision-making logic using large language models, developed backend services with FastAPI and Golang, and implemented frontend components using Next.js.

**Tap Health**

Generative AI Intern

September 2024 – January 2025

Gurgaon, Remote

- Enhanced AI digital diagnostic solutions using Hybrid RAG and Graph databases for optimized disease ontology retrieval and clinical support. Also developed hospital chatbots to boost patient engagement and lead generation.

**Ground0.ai**

Machine Learning Intern

Feb 2024 – August 2024

Mumbai, Remote

- Successfully built a MVP for the company through Generative AI integration for an AI Career Co-Pilot using Google Gemini, Milvus Vector Database, Flask and Strapi.
- Developed efficient Retrieval-Augmented-Generation pipelines using Langchain, embedding models and vector databases to fetch similar career roles based on user profiles.
- Conducted in-depth research and delivered consultancy on GenAI solutions for the company's core products.

**Acciolbis**

Machine Learning Intern

Nov 2022 – Dec 2023

France, Remote

- Led the development of Generative AI voice agents for automated sales calling, securing the company's first customer and driving a 30% increase in lead conversions.
- Built and managed high-performance generative AI pipelines utilizing Langchain, Pinecone and Retrieval-Augmented Generation (RAG), improving data retrieval efficiency.
- Conducted extensive research, training, and fine-tuning of large language models (LLMs) for specific company use-cases, including Vicuna and LLaMA 2, increasing model accuracy by 40%.

## Projects

**SuperGPT** | Python, Flask, OpenAI API, Pinecone, Langchain, MongoDB, Google Cloud Platform

- Developed an advanced AI assistant with features like code generation, document retrieval, image search, image generation and web search functionalities.
- Integrated the OpenAI Assistant API to allow users to create their own assistants and connect custom APIs.

**Ueducate** | Python, OpenAI API, MongoDB, Langchain, Faiss, Pinecone, Streamlit

- Developed a GenAI-accelerated learning platform tailored for fast textbook solutions, enabling students to seamlessly upload PDF textbooks and promptly retrieve answers to their questions directly from the material.

**Personal Blog** | React.js, Tailwind, Strapi CMS, Cloudinary

- Developed a dynamic and responsive personal blog, utilizing React and Tailwind CSS to create a visually appealing user interface. Implemented Strapi headless CMS to enable efficient and flexible content management, enhancing the ease of content updates and scalability.
- Integrated Cloudinary API for optimized image storage and retrieval, ensuring fast loading times and high-quality image delivery.

## Technical Skills

**Languages:** Python, Java, Golang, C++

**Backend:** FastAPI, Flask, Node.js, MongoDB, Redis, MySQL

**Frontend:** React.js, Next.js, Bootstrap, HTML, Tailwind CSS

**Technologies:** Git, Github, Google Cloud Platform, Pinecone, Langchain, RAG, LLMs, Transformers, Docker, Apache Kafka