

ABHIJIT BISWAL

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Education

Dayananda Sagar College of Engineering

BTech in Computer Science Engineering

2026

CGPA: 8.79/10

Experience

DRDO

March 2025 - Present

AI Engineer

India

- Engineered an AI-powered chatbot leveraging **LLMs** via **Ollama** and **FastAPI**, achieving real-time response speeds under **200ms** and handling over **10,000 interactions**.
- Integrated and fine-tuned multiple LLMs including **LLaMA 2**, **LLaMA 3**, and **Phi**, enabling context-aware conversational capabilities and improving response relevance by **40%**.
- Designed and launched an interactive, responsive frontend using **React.js**, boosting user engagement and increasing average session duration by **35%**.
- Achieved **95% accuracy** parsing PDF/Excel files using **LangChain** and **Vector Embeddings**.
- Deployed a scalable custom DB for fast storage and retrieval of chatbot interactions.

Projects

Ollama Chatbot | *FastAPI, Ollama, LLaMA 2/3, React.js, SQLite, LangChain, Node.js*

[GitHub](#)

- Developed an AI-powered chatbot using **Node.js** and **Ollama**, capable of handling over 10,000+ conversations with sub-200ms response latency.
- Integrated and fine-tuned **LLaMA 2**, **LLaMA 3**, and **Phi** models via Ollama to enhance contextual relevance.
- Delivered a modern frontend using **React.js** and **Tailwind CSS**, leading to a 35% increase in user session time and enhanced mobile responsiveness.
- Enabled multi-format file ingestion with **LangChain** and **Vector Embeddings**, achieving 95%+ accuracy in parsing tabular data, call logs, and unstructured text from PDFs and Excel files.

Instant Arogya | *React JS, Node JS, Tailwind CSS, MongoDB*

[GitHub](#)

- Developed a **quick-commerce platform** enabling fast and reliable delivery of medicines and healthcare products with real-time inventory tracking.
- Integrated **Geo-location API** for tracking pharmacies and added **Razorpay payment gateway** for secure transactions and seamless digital payments.
- Implemented an **emergency remote ambulance service** feature, allowing users to request medical assistance with just a few clicks.

FleetSync | *React JS, Node JS, Tailwind CSS, MongoDB, AWS, Docker, SQL, GitHub Actions*

[GitHub](#)

- Designed a **fleet management system** optimizing resource utilization, reducing operational costs, and enabling real-time tracking of vehicles.
- Programmed an **interactive dashboard with GoMaps Maps API** for accurate navigation and route planning, ensuring efficient fleet logistics.
- Implemented **CI/CD pipelines using Jenkins and GitHub Actions** to automate deployment and improve system reliability.
- Utilized **AWS, Docker, and SQL** to enhance scalability, security, and efficiency in managing fleet operations.

Technical Skills

- Languages & Development Tools:** Android Studio, VS Code, Git, HTML, CSS, JavaScript, React.js, Node.js, Solidity, C, C++
- Database:** MongoDB, MySQL
- UI/UX:** Canva, Figma
- Version Control:** Git, GitHub

Achievements and Participation

- Won 2nd prize in HackAventus 2024.
- 1st position in Web3.0 competition for **Community of Gamerz** project.
- Hosted **Recursive 2024**, a 24-hour national-level hackathon at DSCE.
- Organized **Clash of Code 2023**, managing 300+ coders.
- Co-Lead of team **OSCODE DSCE chapter 2023-2026**.