

# Biresb Biswas

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## EDUCATION

### Vellore Institute of Technology - Chennai

Bachelor of Technology in Computer Science and Engineering

Chennai, India

Aug 2023 - 2027

- **CGPA:** 8.33/10.00 (Till 3rd semester)

### Kendriya Vidyalaya Ambernath

Higher Secondary Education

Ambernath, India

2017 - 2023

- **Class XII:** 90.8%
- **Class X:** 93%

## EXPERIENCE

### Cyber Team: A Cyber Security Company — Full Stack Developer

CI/CD, GitHub Actions, React, Hono.js, APIs, ShadCN, Accernity UI

- Developed a fully dynamic website with an appealing UI using React and ShadCN.
- Implemented a CI/CD pipeline using GitHub Actions for automated deployment.
- Built backend APIs for user authentication, including signup and signin, using Hono.js.

### Open Library: Web Page for Every Book Ever Published — OSS Contributor

[Pull Requests](#) ↗

JSON, Data Analysis, APIs, Python, Jest, Docker

- Developed and integrated test cases for interactive elements such as buttons and carousels using the Jest framework.
- Created an import script with comprehensive test cases, successfully adding 2,000+ books from the Open Textbook organization.
- Developed a [CLI tool](#) ↗ for importing missing books into Open Library, including identifiers from OpenAlex, processing approximately 15,000 books.

## PROJECTS

### HAVEN | Next.js, NextAuth, Shadcn UI, Tailwind, PostgreSQL, React, JavaScript, Python

[GitHub](#) ↗

- Developed a web application that helps users stay informed about incidents and crimes in their locality through an interactive map, using emojis to represent different events.
- Utilized PostgreSQL for data storage, implemented NextAuth for user authentication and authorization, and built a community report system with upvotes. Integrated a Twitter crawler to extract real-time incident details.

### FintechApp | React, Node.js, Tailwind CSS, Hasura, GraphQL, MongoDB

[GitHub](#) ↗

- Developed a feature-rich fintech application enabling secure money transfers, deposits, and account management.
- Constructed a robust Node.js backend incorporating JWT for user authentication and authorization, created RESTful APIs with seven endpoints, and designed a modern, responsive frontend with React and Tailwind CSS.

### LabelInsight | FastAPI, RAG, LangChain, Groq, React, Python, MongoDB

[GitHub](#) ↗

- Engineered a comprehensive application that scans product barcodes, analyzes nutritional and ingredient data, and delivers insights on product claims versus actual content.
- Implemented a Retrieval-Augmented Generation (RAG) architecture using LangChain and Groq, leveraging open-source APIs for detailed product information and MongoDB for personalized user allergy profiles.

### Visualization Dashboard | React, Python, Flask, Tailwind CSS, MongoDB

[GitHub](#) ↗

- Designed and developed an interactive dashboard for real-time data visualization, enabling users to generate and interpret data-driven insights through dynamic graphs and charts.
- Architected the backend using Flask for data processing, integrated with the Nivo library for advanced visualizations, and built the frontend with React and Tailwind CSS for a responsive user experience.

### Convert-into-Text | *React, Node.js, Tailwind CSS, Flask, Python, Tesseract OCR*

[GitHub](#) ↗

- Developed a high-accuracy Optical Character Recognition (OCR) application for extracting Hindi and Sanskrit text from images.
- Implemented a Flask-based backend with Tesseract OCR for text extraction, and a React frontend with react-image-crop for precise image selection and processing.

### Gitguru | *HTML, CSS, JavaScript, Chrome Extension*

[GitHub](#) ↗

- Developed an AI-driven Chrome extension that provides detailed explanations and solutions for GitHub issues, enhancing developer productivity.
- Integrated backend services with a dynamic frontend interface, injecting custom UI elements, managing API interactions, and seamlessly displaying contextual data within the browser.

## ACHIEVEMENTS

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- 1st runner up in I Love Hackathon: Chennai Web3 Edition 2024 out of 49 finalists and 900+ applicants.
- Secured 15th place out of 64 finalists and 1000+ applicants in Dev house 2024 conducted by GDSC of VIT-Chennai.
- Completed Hacktoberfest, a month-long event promoting open-source contributions.
- Actively contributed to the Open Library community by sharing ideas and joining their Slack channel.

## TECHNICAL SKILLS

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**Languages:** Python, C/C++, JavaScript, TypeScript, Solidity, HTML/CSS

**Technologies:** React, Next.js, Tailwind CSS, Node.js, Express.js, Flask, FastAPI, Jest, MongoDB, RESTful APIs, JWT, Selenium, RAG, Groq, LangChain, IPFS, Web3.js, Ethers.js, Hardhat

**Developer Tools:** Git/GitHub, GitHub Actions, CI/CD, Docker, Google Cloud Platform, VS Code, Linux, Remix