

Souradip Biswas

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SKILLS

- **Languages:** PYTHON, JavaScript, JAVA, PowerShell, TypeScript
- **Frameworks:** Next.js, React.js, Tailwind
- **Tools/Platforms:** Google Cloud, Cloud Run, Vercel, Firebase, Supabase, GenkitAI, VertexAI
- **Soft Skills:** Fast Learner, Leadership, Communication, Teamwork

WORK EXPERIENCE

For Open Client | [Github](#)

July 2025 - August 2025

Freelancer

- Engineered a central hub with at-a-glance analytics, including total receivables, payables, stock value, and a sales overview chart
- Developed a Business venture management application for the client.
- Added Tooltips feature provides quick details on hover.
- Additional features include Party Management, Sales Reports, GST Reports, Raw Data exportation along with an Invoice generator.
- Built on an offline-first framework, enabling full functionality without a persistent internet connection.

Tech: Next.js, TypeScript, React, Tailwind and Lucid for Icons.

PROJECTS

Niva – Conversational Assistant integrated via Telegram | [Github](#)

November 2025

- Developed "Niva," a proactive conversational AI agent on Telegram using FastAPI and Google Vertex AI (Gemini).
- Engineered a persistent memory system using Firestore that manages short-term context and synthesizes long-term summaries for continuous learning.
- Implemented background automation ("Will" triggers) to handle scheduled tasks like sentiment analysis, daily journaling, and news pushes.
- Designed an opinionated persona focused on authentic, human-like interaction rather than passive command execution.

Tech: Python, FastAPI, Uvicorn, Telegram Client, Firebase, Google Cloud, Docker, GenAI_Vision, scheduler

A Hybrid Model that Predicts Water Born Disease Outbreaks | [Github](#)

October 2025

- Developed a hybrid LSTM-XGBoost system to forecast water-borne disease outbreaks by synthesizing water quality, environmental, and demographic data.
- Engineered predictive risk scores specifically tailored for rural and semi-urban regions to identify potential health hazards early.
- Achieved recognition as a Top 15 team in the Smart India Hackathon (SIH) Pre-Finale for the project's technical innovation.

Tech: Python, TensorFlow/Keras (LSTM), XGBoost, Pandas, NumPy, Scikit-Learn, Matplotlib/Seaborn, Streamlit, Firestone, REST APIs, FastAPI

CERTIFICATES

- AI ML & Data science | [IIT Roper](#) March 2024
- Development Of Agri Spraying Drones Using IOT & AI & ML | [SLIET](#) August 2025

ACHIEVEMENTS

- **Patent Published | [Link](#)** October 2025
Hybrid Endomythosis Detection through AI & ML
- **Received the 1st Runner up in Web_E_Thon 2025:** March 2025
1st Among 400 teams who came to participate.

EDUCATION

- **Lovely Professional University** Punjab, India
Bachelor of Technology - Computer Science and Engineering; CGPA: 7.1 Since August 2023
- **Kendriya Vidyalaya Kunjaban** Agartala, West Tripura
10+2; **Percentage: 84%** April 2020 - March 2022
- **Kendriya Vidyalaya Ambassa** Ambassa, Dhalai Tripura
Matriculation; Percentage: 87% April 2010 - March 2020