

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, Project Management, Communication

WORK EXPERIENCE

- For Open Client

July 2025 - August 2025

Freelancer

- **Project Overview:** Developed a Business venture management application for the client.
Core features:
 - A central hub with at-a-glance analytics, including total receivables, payables, stock value, and a sales overview chart.
 - 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 stacks used:** Next.js, TypeScript, React, Tailwind and Lucid for Icons.

PROJECTS

- Niva – Conversational Assistant integrated via Telegram:

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:

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

• Gen AI Prompt Engineering | [LinkedInLearning](#).

July 2024

• AI ML & Data science | [IIT Ropar](#)

March 2024

• Google's Crash Course on Python | [Coursera](#)

August 2023

ACHIEVEMENTS

- Received the 1st Runner up in Web_E_Thon 2025:

March 2024

1st Among 400 teams who came to participate.

EDUCATION

- Lovely Professional University

Punjab, India

Bachelor of Technology - Computer Science and Engineering; **CGPA: 7.0**

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