# Souradip Biswas

Linkedin:  **www.linkedin.com/in/sobiswriter**

Github:  https://github.com/sobiswriter

Email:  souradip073@gmail.com

Mobile:   +91-8787822581

## 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, Stream_lit, 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*