

Brojen Gurung



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My Portfolio: <https://brojen-info.vercel.app>

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Objective

AI and Full-Stack Developer with a strong foundation in building real-world projects such as tourism chatbots, medical assistants, and image generation tools. Experienced in working with LLMs, React ecosystems, and cloud tools. Seeking a paid internship opportunity to contribute to impactful AI/ML or software development teams while expanding my practical and collaborative skills.

Education

BTech – Information Technology	Sikkim Manipal Institute of Technology (SMU) 2022–2026
CGPA: 6.5 / 10 (Pursuing)	
Secondary (Class X)	Holy Cross School, Tadong (CBSE), Gangtok 2020
Marks:73%	
Senior Secondary (Class XII Sc)	Tashi Namgyal Senior Secondary School (CBSE), Gangtok 2022
Marks:63%	

Technical Skills

- **Languages:** Python, C++, JavaScript, TypeScript
- **Frontend:** HTML, CSS, React, Tailwind CSS, Vite, Streamlit
- **Backend & Cloud:** Node.js, Express, Flask
- **Database:** MongoDB, Firebase Firestore
- **AI&ML:** LLaMa2/3, Langchain, IBM Watson AI, Hugging Face, NLP, Stable Diffusion
- **Data Handling:** Pandas, NumPy, TensorFlow, Web Scraping, Metadata Structuring, Text Vectorization
- **Dev Tools:** Git, GitHub, VS Code, Google Colab, Figma, Canva, CUDA, Postman, Vercel
- **Currently Learning (MLOps):** Docker, CI/CD pipelines (GitHub Actions), AWS (EC2, S3), MLflow, DVC

Projects

- **Gurumurti Decorators – Client Website:** Designed and deployed a high-performance business website using React, TypeScript, Tailwind CSS, and Vite, hosted on Vercel with a custom domain via Namecheap. Implemented SEO best practices and responsive UI to significantly enhance the client’s online reach and brand visibility.
- **Sikkim Tourism Chatbot – AI-Powered Travel Assistant:** Engineered a multilingual chatbot for **Sikkim tourism**, integrating **IBM Watson** with a locally hosted **LLaMA 3 backend** for intelligent, offline query handling. Merged real-world **taxi fare data** and deployed a clean **Streamlit UI**, enabling efficient, real-time assistance for travelers across languages.
- **AI Wallpaper Generator (Stable Diffusion):** Developed a personalized image generation system using **Stable Diffusion**, leveraging **CUDA acceleration on RTX 3050**. Integrated facial detection and custom prompt logic to generate user-specific wallpapers, laying the foundation for future AI-driven creative tools.

- **YOLO-Based Fault Detection in Solar Panels:** Contributed to a CV-based fault detection project for **photovoltaic (PV) cells** using **YOLO architecture**. Led the effort in collecting and manually annotating a clean, diverse image dataset, ensuring high precision during model training for automated panel diagnostics.
- **Virtual Assistant (Python + JSON):** Built a lightweight, query-based virtual assistant using **Python and a JSON-driven knowledge base**, designed to automate responses for frequently asked questions. Delivered as a CLI prototype to support internal digital initiatives for the Department of IT.
- **Flappy Bird Clone – Game Development:** Designed and implemented an endless runner game inspired by Flappy Bird in Unity (C#). Focused on building immersive user interaction through real-time 2D physics, smooth animations, and responsive controls — introducing core game mechanics and event-driven logic.

Certifications & Achievements

- Internship – Dept. of IT, Govt. of Sikkim (Remote)
- Participated– GDSC SMIT UI Redesign Challenge
- Built & hosted multiple full-stack projects independently

Interests

- Sports (Basketball, Gym)
- Reading
- Traveling
- Coding