

Sourav Mahato

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EDUCATION

National Institute of Technology Sikkim	Aug 2023 - Present
B.Tech - Computer Science and Engineering - CGPA- 7.33	Ravangla, Sikkim
Asansol North Point School	May 2022
Senior Secondary - Percentage- 77.2%	Asansol, West Bengal
Asansol North Point School	May 2020
Secondary - Percentage- 83.0%	Asansol, West Bengal

EXPERIENCE

Rojgaar	Dec 2025 – Present
Full Stack Developer	<i>Remote</i>
• Developed an internship application platform using React, Flask, and PostgreSQL .	
• Implemented real-time chat functionality between users using WebSockets for active communication.	
YantraPragya Developers Pvt Ltd	Dec 2025 – Jan 2026
AI Engineer	<i>Remote</i>
• Engineered a U-Net architecture from scratch with skip connections for high-precision segmentation.	
• Developed 512x512 RGB pipelines with bottleneck optimization and inference visualization for validation.	

SKILLS

AI & ML :	TensorFlow, OpenCV, Scikit-learn, CNNs, U-Net, Image Segmentation
Data Engineering :	NumPy, Pandas, Matplotlib, SQL, Data Preprocessing, ETL
Programming :	Python, C++, C, Java, JavaScript
Web & Backend :	Node.js, Express.js, React.js, FastAPI, Tailwind CSS, PHP
Tools :	Git/GitHub, Linux, VS Code, Figma

PROJECTS

Medical Image Segmentation  Python, PyTorch, OpenCV, Matplotlib, CNNs	
• Engineered a U-Net model from scratch for high-precision semantic segmentation on 512x512 RGB dental imagery, extracting anatomical details of teeth and gums.	
• Optimized a symmetric encoder-decoder pipeline with skip connections to retain fine-grained spatial features, enabling accurate pixel-wise masking for diagnostic support.	
Predictive Diagnostic Analysis  Python, Scikit-learn, Pandas, NumPy, Matplotlib	
• Developed classification models using Scikit-learn to predict diagnostic outcomes across medical datasets (Breast Cancer, Iris) with optimized accuracy.	
• Conducted extensive EDA and hyperparameter tuning across Decision Trees, KNN, and Naive Bayes to improve model robustness and feature scaling efficiency.	
Personal Portfolio Website  HTML, CSS, Tailwind CSS, JavaScript, Vercel, Formspree	
• Built and deployed a fully responsive personal portfolio from scratch using HTML, Tailwind CSS, and JavaScript, featuring a serverless contact form via Formspree.	

POSITIONS OF RESPONSIBILITY

Member (Technical Team) - Web Development Cell, NIT Sikkim	Dec 2024 - Present
Member - DEV CANS (Coding Club), NIT Sikkim	Dec 2024 - Present
Volunteer - Training and Placement Cell, NIT Sikkim	May 2025 - Jan 2026

ACHIEVEMENTS

LeetCode 	
• Solved 80+ LeetCode problems focusing on Data Structures and Algorithms.	