

ABHRAJIT CHAKRABORTY

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Aspiring Software Engineer and AI/ML enthusiast with a strong foundation in **MERN Stack, AI/ML** and **Deep Learning**. Experienced in developing clinical AI pipelines (NeuroGuard-AI) and deploying live freelance web solutions. Highly proficient in bridging the gap between complex model inference and scalable software environments.

EDUCATION

- Madhuben & Bhanubhai Patel Institute Of Technology 2023 - Present
Bachelor's in Technology - Information Technology (CGPA: 9.60/10.00) Anand, Gujarat
 - Courseworks: Data Structure and Algorithms, Database Management Systems, Operating Systems, Web Development, Software Engineering..
- St. Xavier's High School 2019-2022
Secondary & higher secondary Vapi, Gujarat
 - Secondary(10th):93.2%
 - Higher Secondary(12th):89.8%

SKILLS

- Programming: Python, PyTorch, MONAI, TensorFlow/Keras, OpenCV, FastAPI/Flask, MERN Stack, MongoDB.
- Frameworks: NumPy, Pandas, Scikit-learn, React, Node.js, Express.js.
- Developer Tools: Git, GitHub, VS code, Jupyter, Google colab, Excel, Word.
- Soft Skills: Interpersonal Communication, Problem Solving, Collaborative skills.
- Languages: English, Hindi, Bengali, Gujarati.

Certifications

Code Unnati: Advanced Emerging Technologies | SAP & Edunet Foundation.

- Core focus on AI/ML, Deep Learning, Edge Computing, and SAP BTP/ABAP

Extracurriculars

- Participated at CVMU MUN 2024 and at hackathons like Synapse 24, SIH 24.
- Member of GDSC club MBIT and Former member of IEEE Club MBIT

PROJECTS

Sign Language Recognition System | Computer Vision & Deep Learning

- Built a real-time AI tool tracking **21 hand points** to translate **24 sign language letters** into text and speech with zero delay. Implemented **15-frame smoothing logic** to eliminate flickering and a **TFLite model** to ensure high-speed performance on any laptop
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NeuroGuard-AI | 3D Medical Imaging & Deep Learning

- Developed a clinical pipeline using **Swin-UNETR** to achieve a **0.76+ Dice Score** for high-precision **3D brain tumor segmentation**. Optimized a PyTorch/MONAI workflow to process 4 MRI modalities in <10s.

Business Website Development | Best Fire Services

- Designed and deployed a professional business website (www.bestfireservices.in) to showcase fire safety equipment, products and AMC services. Optimized the site for **Responsive Design** and local **SEO** to effectively reach clients across regions. Built for a real client; site serves 3+ service regions.

Hospital Bed Management System (MERN)

- Developed a full-stack dashboard to monitor and update real-time bed availability across hospital wards. Built a **Node.js** backend to connect a **MongoDB** database with a **React** frontend for instant, no-reload status updates
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