

Tanmoy Talukdar

- Portfolio
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- CodeForces
- LeetCode

EDUCATION

- National Institute of Technology, Silchar** Silchar, India
B.Tech in Electronics and Communication Engineering; CGPA: 8.86 2023 - Present
- Sai Vikash Vidya Niketan** Assam, India
Higher Secondary : Percentage: 93.4 2023
- Model English School** Assam, India
Senior Secondary : Percentage: 97.5 2021

PROJECTS

- E-Clinic** Oct 2024
Repository Link
 - Developed a personalized health scoring system using ML models (**Random Forest**, **XGBoost**, **Neural Networks**) to provide lifestyle recommendations.
 - Integrated Python-based data processing and Gen AI tools like **OpenAI**, **LangChain** for interactive user experience.
 - Collaborated in a team of 2 to build the complete system from data processing to frontend interaction.
 - Tools & Technologies used: Pandas, NumPy, scikit-learn, TensorFlow, OpenAI and LangChain.
- DiaGNO** March 2025
Repository Link
 - Developed an AI-driven web app for disease prediction using symptom input in **natural language** and **cosine similarity-based ranking**.
 - Implemented an adaptive Q&A refinement process for accurate diagnosis via an intuitive Flask interface.
 - Collaborated in a team of 3 to build the complete Web App from natural language processing to disease prediction.
 - Tools & Technologies used: Python, Flask, Scikit-learn, Pandas, NLTK.
- AI Image Generator** Feb 2025
Repository Link
 - Built an AI-based tool to generate high-resolution images by blending user-uploaded visuals and text prompts.
 - Integrated **CLIP Interrogator** for feature extraction, **T5** for summarization, and **Stable Diffusion** for image generation.
 - Collaborated in a team of 3; ensured output coherence and quality by integrating **Transformers** and **Diffusers** libraries.
 - Tools & Technologies used: Pytorch, Transformers, Diffusers ,Flask.

SKILLS

- Languages:** C, C++, Python, HTML, CSS, JavaScript
- Frameworks:** TensorFlow, scikit-learn, Keras
- Libraries:** Pandas, NumPy, OpenCV, NLTK
- Tools:** Git, GitHub, Arduino, VS Code, Matlab, CoppeliaSim, Xilinx
- Soft Skills:** Leadership, Event Management, Teamwork, Time Management

POSITIONS OF RESPONSIBILITY

- NITS Embedded and Robotics Development Society, NIT Silchar** Onsite
ML Head (Full-time) Sep 2024 - Present
 - Participated actively in club meetings, workshops and hands-on events and contributing to team projects, fostering a collaborative environment.
 - Organized various robotics based events and activites for the entire freshman year. These activities encouraged teamwork and problem-solving, providing students with an engaging introduction to robotics.

CERTIFICATIONS

- Certification in Machine Learning Specialization:** Coursera

HONORS AND AWARDS

- Qualified for the **Final Round of Neurathon 2025** - Feb, 2025
- Secured **Top 12** position in the 1st quiz round of **Robotrix 2025** and qualified for the **Final round** - Dec, 2024
- Secured **1st position** in **Data Strata Hackathon**- Nov, 2024
- Secured **Top 3** position in **Riddlex 2025** - April, 2025