Tanmoy Talukdar

✉ tanmoy_ug_23@ece.nits.ac.in
📞 +91-6000207181
🌐 CodeForces
</> LeetCode

⌂ GitHub/buggytanmoy77
in LinkedIn/Tanmoy-Talukdar

EDUCATION

National Institute of Technology, Silchar — Silchar, India
B.Tech in Electronics and Communication Engineering; CGPA: 8.7 — 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
Repository Link — Oct 2024
- 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
Repository Link — March 2025
- 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
Repository Link — Feb 2025
- 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
Core Member (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