

DEBJIT MANDAL

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EDUCATION

Kalinga Institute of Industrial Technology, Bhubaneswar, Odisha
B.Tech, Computer Science and Engineering

2022 - 2026
CGPA: 9.13/10

EXPERIENCE

CAMPUS AMBASSADOR, IMUNA

JULY, 2023- AUGUST, 2023

- Promoted IMUN Online Conferences in different schools/universities and got 10+ registrations.
- Best Intern for a week.

PROJECTS

- **NeuroSeg:** A Deep Learning-based Brain Tumor Segmentation System.
 - Designed and trained a UNet-based deep learning model for automatic brain tumor segmentation from MRI images.
 - Developed a full-stack web application using Flask (backend) and HTML/CSS/JS (frontend) for real-time tumor detection.
- **ECGShield:** An interactive Streamlit-based system for ECG noise removal using advanced filtering techniques.
 - Implemented various signal filtering techniques including Notch Filter, High-Pass, Low-Pass, and Wavelet Denoising.
 - Designed a user-friendly Streamlit interface to upload ECG files, visualize signals, and download the cleaned output.
- **MoodMelody:** A Real-time emotion detection and content recommendation system.
 - Implemented emotion recognition using TensorFlow/Keras.
 - Integrated Spotify API for personalized music recommendations.
- **DSH:** A Command-Line shell made using C++.
 - Implemented custom command parsing for user-defined commands.
 - Handled concurrency with multithreading for running background processes.
- **TrafficVisionAI:** A Real-Time Traffic Sign Recognition and Driver Assistance using AI.
 - Integrated traffic sign recognition using TensorFlow and OpenCV.
 - Developed lane detection and collision warning systems.

SKILLS

- **Programming Languages:** Python, C/C++
- **Web Technologies:** HTML, CSS
- **Tools:** Git
- **Frameworks & Libraries:** TensorFlow, OpenCV, scikit-learn, Pandas, NumPy
- **Databases:** SQLPlus