Bitan Kumar Ghosh

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EDUCATION

Institute of Engineering and Management

Higher Secondary Education (Class. 12)

Salt Lake Sector-V, Kolkata

B. Tech

2026

9.25

92.34%

B.Tech SGPA

Institute of Engineering and Management, Kolkata

SGPA upto 5th semester

Krishnanagar Collegiate School, Krishnanagar

Percentage

92.14%

Secondary Education(Class. 10)

Krishnanagar High School, Krishnanagar

Percentage

Projects

AI based frame interpolation, video generation and display system for WMS services

- Developed a system to process satellite imagery from WMS services, applying AI-based frame interpolation (using the FILM model) to generate smooth video animations of weather patterns.
- Implemented this project during the SIH 2024 Finals.

Designing and Building an ZSI Inverter(ongoing)

- To design and build a Z-Source(ZSI) Inverter for conversion of Direct current to Alternate current and applying the current for Electric Vehicle charging
- Ongoing Final year departmental project

Real time sign language recognition using CNN

- To develop a Deep Learning model for recognizing American Sign Language(ASL) using Convolutional Neural Network, OpenCV
- Working on publishing a research paper on this following project

Automatic hand gesture door lock system

- To develop a automated door lock system using Computer Vision and Arduino
- Developing a light weight model for automated door lock using Mediapipe and OpenCV

Obstacle Detection using IR sensor and Arduino

• To develop an Arduino based Obstacle detection system using Arduino and IR sensor

SKILLS SUMMARY

Programming Languages: C, C++, Python

Technologies: Numpy, Pandas, Seaborn, OpenCV, YOLO, NLP, Tensorflow, Matlab

Tools: Visual Studio Code, Git, GitHub, Tinkercad, Matlab-Simulink, Jupyter

COMMUNITY WORK

Smart India Hackathon 2024 Finalist

Guirat University

Team Member

 $Team\ Lead$

11 - 12th December 2024

Member of the Team 70 and qualified for the finals of prestigious SIH 2024

Simulcrum 2024

Institute of Engineering and Management(IEM)

5th April 2024

• Successfully able to lead my team to the finals of Inter Departmental simulation based project competition and securing runners up position