# Arijit Mukherjee

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## EDUCATION

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|---|---|
| **Heritage Institute of Technology** | Kolkata |
| *Bachelor of Technology in Electronics and Communication, CGPA: 8.5 (upto 4th sem)* | *Sept. 2022 – present* |
| **Chittaranjan Boys' High School** | Purulia |
| *Higher Secondary Examination, 93.8%* | *May 2020 – May 2022* |
| **Chittaranjan Boys' High School** | Purulia |
| *Secondary Examination, 89.2%* | *Jan. 2014 – May 2020* |

## SKILLS

**Programming Languages**: C, C++, Python, HTML, CSS, JavaScript
**Frameworks**: Flask, Bootstrap
**Tools and Platforms**: Jupyter, Google Colab, Dev C++, VS Code, PyCharm, GitHub
**Interests**: CNN, YOLO, OpenCV, Image-Processing
**Soft Skills**: Team Collaboration, Good Listener, Responsibility, Creativity

## PROJECTS

**SHIKSHA** | *YOLO, PyTorch, OpenCV, Python, DBSCAN, Flask*
- Developed a fully automated classroom management system with features like facial recognition-based attendance, behavior tracking, noise detection, resourse management.
- Including examination monitoring with QR-based answer booklet coding to prevent identity swapping, ensuring exam integrity.

**Feature Extraction from Remote Sensing High Resolution Data using AI/ML** | *YOLO, OpenCV, Python, Flask*
- Collect dataset from Google earth, Bhoonidhi and train that model using Yolo object detection
- Deploy that model in a web-interface

**Crop Recommendation System** | *Python, Random forest, HTML, CSS, Flask*
- Collected data on soil properties, nutrients and weather factors to extract key features for predicting optimal crop choices.
- Developed machine learning models and deployed in a user-friendly application to assist farmers in selecting the best crops based on real-time conditions.

**Car Price Prediction using ML** | *Python, Machine Learning, Flask*
- Collect the data on various car details
- Build up a model and deploy that model in a user friendly website.

**Tic-Tac-Toe** | *HTML, CSS, JavaScript* (Live link)
- Developed a classic Tic-Tac-Toe game using HTML for structure, CSS for styling, and JavaScript for game logic, allowing two players to compete in an interactive grid.

## PUBLICATIONS

**An Image Processing Approach to Enhance Driver Distraction and Drowsiness Detection Algorithm**

- **Link:** https://ieeexplore.ieee.org/document/10511409

## ACHIEVEMENTS

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| **Winner of Hack Heritage 2024** | |
| *Heritage Institute of Technology (Kolkata)* | *Sep. 2024* |
| **Winner of MCKV PRAYAS 2024** | (Certificate) |
| *MCKV Institute of Engineering (Howrah)* | *Apr. 2024* |