

# MAUSUMI BHUYAN

📍 Gajapati, Odisha, India ✉️ [mausumibhuyan02@gmail.com](mailto:mausumibhuyan02@gmail.com) 📞 7749902629 🌐 [in/mausumi-bhuyan-a60a68291](https://in.mausumi-bhuyan-a60a68291)

## SUMMARY

Aspiring engineer with a strong interest in web, software development, and robotics, seeking a career opportunity to apply my skills, innovate, and gain hands-on experience in a collaborative environment.

## PROJECT

### Visual-Based Navigation: Visual perception technique for autonomous systems

[github.com/MAUSUMIBHUYAN/Vision-Based-Navigation](https://github.com/MAUSUMIBHUYAN/Vision-Based-Navigation) • January 2025 - May 2025

- This project implements a GPS-independent autonomous drone landing system using computer vision. The drone detects a colored landing marker via its onboard camera, enabling precise navigation and landing without reliance on external signals like GPS or internet connectivity.

### Creovate Website

[mausumibhuyan.github.io/Creovate/](https://mausumibhuyan.github.io/Creovate/) • March 2025 - April 2025

Designed a dynamic portfolio website for Creovate, incorporating HTML, CSS, and JavaScript to deliver a visually appealing and fully responsive user experience with interactive features and animations.

### Task Management System

[github.com/MAUSUMIBHUYAN/Task-Management-System](https://github.com/MAUSUMIBHUYAN/Task-Management-System) • November 2024 - December 2024

Implemented a web-based Task Management System that enhanced team collaboration, optimized task assignments, and provided real-time tracking, utilizing PHP, MySQL, HTML, CSS, and JavaScript.

### Bookshop Management System

[github.com/MAUSUMIBHUYAN/Book-Management-System](https://github.com/MAUSUMIBHUYAN/Book-Management-System) • November 2024 - December 2024

Implemented a bookshop management system in C++ featuring functionalities for adding, deleting, and updating book records, with advanced search capabilities for title or author and seamless purchasing options.

### Traffic Light Controller

[github.com/MAUSUMIBHUYAN/Traffic-light-controller](https://github.com/MAUSUMIBHUYAN/Traffic-light-controller) • October 2024 - November 2024

Implemented a reinforcement learning-based traffic light controller system that optimized traffic flow, significantly decreasing congestion and improving travel time at a critical intersection.

### Tracing Script Evolution Through Analysis of Handwritten Kannada Texts

[github.com/MAUSUMIBHUYAN/Tracing-Script-Evolution-Through-Analysis-Of-Handwritten-Kannada-Texts](https://github.com/MAUSUMIBHUYAN/Tracing-Script-Evolution-Through-Analysis-Of-Handwritten-Kannada-Texts) • February 2024 - May 2024

An analytical framework to trace the evolution of handwritten Kannada scripts, utilizing machine learning models to uniquely identify and characterize various writing styles over time.

### Blackjack Game

[github.com/MAUSUMIBHUYAN/Project](https://github.com/MAUSUMIBHUYAN/Project) • April 2023 - June 2023

- Blackjack**, also known as **21**, is a classic card game where the objective is to achieve a hand value closer to **21** than the dealer's without exceeding it. Players compete against the dealer, strategically drawing cards to optimize their total while avoiding a bust.

## EDUCATION

### Electrical Engineering

Indian Institute Of Technology Palakkad • Palakkad • 2022-2026 • 7.5/10

### Intermediate

ARIHANT H S SCHOOL • 2019-2021 • 84%

### 10TH

ST. JOSEPH'S ENGLISH MEDIUM SCHOOL • 2019 • 83%

## INVOLVEMENT

### Organizer

- Organizer for the fashion and craft competition during the college fest, overseeing event coordination and participant management.

### Volunteer

- Volunteer for the college fest workshop.

## SKILLS

HTML, CSS, Javascript

Python, C++, MATLAB

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