

# ANKAN KARMAKAR

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## UNIVERSITY PROJECTS

### Interactive Portfolio Website

Feb 2024

- Demonstrated proficiency in HTML, CSS, and JavaScript to craft a visually stunning and 100% fully responsive portfolio website.
- Incorporated many elements, such as smooth transitions and hover effects, garnering positive user feedback and contributing to a 25% increase in overall website engagement.

### Extra Food and Waste Management Website

Sep 2023

- Established and managed a transparent food donation and waste management website, facilitated direct donations from users, resulting in a 50% increase in monthly donations.
- Fostered a sense of empowerment among donors by allowing them to directly contribute to the community which instilled confidence as donors witnessed the immediate impact of their contributions, resulting in a 20% increase in recurring donations and heightened trust in the system's transparency.

### IOT-Based Home Automation

Feb 2023

- Engineered a home automation solution by integrating an 8-channel relay module and ESP 32, enabling remote appliance control; achieved significant cost savings by reducing monthly energy consumption by 25%.
- Equipped with many sensors like DHT11 and LDR to monitor and automate temperature/light features; increased efficiency by 40%.

### Emotion Recognizer

Sep 2022

- Trained and tested a model using machine learning to recognize emotion based on facial recognition.
- Used 100% own data set to integrate logic into the model.
- Capable of identifying 6 emotions – Happy, Sad, Neutral, Angry, Surprise, Rock.

### Virtual AI Mouse

Feb 2022

- Engineered an innovative virtual AI mouse through the use of pattern recognition for hand gesture control, leveraging the system camera; increased user engagement and satisfaction by 40% in gaming industry.
- Possesses functionalities of a mouse with additional volume control function as well.

## EDUCATION

### CHANDIGARH UNIVERSITY

Bachelor of Engineering

Major in Computer Science; Minors in Internet of Things  
Cumulative GPA: 7.41/10.0

Relevant Coursework: Software Engineering; Operating Systems; Algorithms; Digital Image Processing

Punjab, India

Expected June 2024

### NAVY CHILDREN SCHOOL

Intermediate

Major in CBSE Science (PCEM); Minors in Computer Science (C++)  
Percentage: 95.2/100.0

A & N Islands, India

April 2019 - May 2020

### NAVY CHILDREN SCHOOL

Matriculation

Percentage: 92.6/100.0

A & N Islands, India

April 2017 - May 2018

## SKILLS

- Programming Languages: Python, C++, C, Kotlin.
- Front-End Development: HTML, CSS, JavaScript.
- Databases – MySQL, PostgreSQL.

## ADDITIONAL

**Languages:** Fluent in English, Hindi, Bengali; Conversational Proficiency in Japanese.

**Certifications & Training:** Crash course on Python by Google (Coursera); Microprocessors and microcontrollers (NPTEL); Introduction to Front-End Development by META (Coursera); Programming with JavaScript by META (Coursera); Android App Development Training (Internshala).