

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.

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

Punjab, India

August 2020 - June 2024

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

NAVY CHILDREN SCHOOL

Intermediate

A & N Islands, India

April 2019 - May 2020

Major in CBSE Science (PCEM); Minors in Computer Science (C++)

Percentage: 95.2/100.0

NAVY CHILDREN SCHOOL

Matriculation

A & N Islands, India

April 2017 - May 2018

Percentage: 92.6/100.0

SKILLS

- | | | |
|--------------|---------------|--------------------------------|
| • Python | • HTML | • UI/UX |
| • C/C++ | • CSS | • Versioning Git/Github |
| • JAVA | • Bootstrap | • Data Structures & Algorithms |
| • Kotlin | • Postgre-SQL | • Problem- solving |
| • JavaScript | • MySQL | • Excel/Powerpoint |

ADDITIONAL

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

Certifications & Training:

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|---|--|
| • Crash course on Python by Google | • Principles of UI/UX Design by META |
| • Programming Fundamentals in Kotlin by META | • AWS Fundamentals: Addressing Security Risk |
| • Version Control by META | • Palo Alto Networks Cybersecurity |
| • Microprocessors and microcontrollers (NPTEL) | • Android App Development Training (Internshala) |
| • Introduction to Front-End Development by META | |
| • Programming with Javascript by META | |