Supratim Ghosh

BTech 3rd year
Department of Computer Science and Information Technology
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GITHUB-github.com/sgindeed
LEETCODE- leetcode.com/maverick234
CODECHEF-codechef.com/users/Supratimg233

Skills

- C, Java, Object Oriented Programming, Python
- Git, Linux and Operating Systems, DBMS, Data Structure and Algorithms

Education

B.Tech in Computer Science and Information Technology (CSIT)

University of Engineering and Management, Kolkata (2021-2025)

SEMESTER	1ST	2ND	3RD	4TH
CGPA	8.71	9.47	9.78	9.78
SGPA	8.71	9.47	9.78	9.78

Higher Secondary (82%)

Orient Day School, Kolkata (2018 - 2020)

Personal Projects

- **STUDENT MANAGEMENT SYSTEM -**A Student Management System developed with HTML, CSS, and JavaScript efficiently manages student records. It allows user-friendly data entry, retrieval, and updates. HTML forms gather data, CSS ensures an appealing interface, while JavaScript enables dynamic features like real-time search and sorting, enhancing administrative tasks and user experience.
- **HAND DETECTION SYSTEM -**Creating a hand detection system using Python is made possible by leveraging libraries like NumPy, MediaPipe, OpenCV, and UUID. MediaPipe offers pre-trained hand tracking models, while OpenCV handles image processing. NumPy manages array manipulation. UUID ensures unique identification. This system enables real-time hand tracking with diverse applications, from gesture control to interactive experiences.
- **VOLUME CONTROL USING HAND GESTURES -**Implementing a volume control system via hand gestures is achievable using Python and key libraries: NumPy, MediaPipe, OpenCV, PyCaw, TensorFlow, and OS. MediaPipe offers hand tracking, while OpenCV manages image manipulation. TensorFlow enables gesture recognition. PyCaw controls system volume. NumPy handles array operations, and the OS ensures system interaction. This setup permits hands-free volume adjustment through intuitive gestures.
- **HAND GESTURE CONTROLLED MOUSE (ONGOING) -** A gesture controlled mouse which will be divided into 5 different domains: Clicks, Volume Control, Sliding through PPTs, Scrolling, Play and Pause. The libraries and packages used are NumPy, MedaPipe, PyCaw, PyAutoGUI, TensorFlow, OS, etc.
- **CROP DISEASE DETECTION SYSTEM (ONGOING) -** Developing a crop disease detection system addresses agricultural challenges. By integrating image processing and machine learning techniques, the system identifies diseases early. Through image analysis, patterns are recognized, aiding farmers in targeted interventions. This technology enhances crop yield and promotes sustainable farming practices

Achievements

- Completed Milestone 1 in Google Cloud Ready Facilitator program, gaining expertise in cloud technologies.
- Secured 4th place in intra-department coding competition, highlighting coding proficiency.
- Successfully organized online and offline quiz competitions, fostering event planning and coordination skills.
- Organized and managed an intra-department coding competition, showcasing leadership and organizational abilities.

Extra Curricular Activities

- Active participation in various sports, enhancing teamwork and leadership skills.
- Enthusiastic participant in quiz competitions, showcasing general knowledge and critical thinking abilities.
- Engaged in poster design competitions, fostering creativity and visual communication skills.
- Actively involved in coding competitions, demonstrating problem-solving aptitude and coding proficiency.
- Regular participant in debate events, honing communication and persuasion skills.
- A member of Google Developers Students Club (GDSC UEMK).
- Participated in college MUN and represented China in UNGA.