

RIPAN ROY

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Education

Techno India University

2020 – 2024

Bachelor of Technology in Computer Science and Business Systems

Kolkata, West Bengal

GPA: 9.17(till 3rd Semester)

Raiganj Coronation High School

2017 – 2019

12th, Board - WBCHSE

Raiganj, West Bengal

Grade: A

Raiganj Coronation High School

2017

10th, Board - WBBSE

Raiganj, West Bengal

Grade: AA

Projects

SIH'22 Project | Python, tKinter, Open-CV, SVM, DNN, SQLite3 | [Link](#)

April 2022 – August 2022

Description - DETECTING COVID-19 SUSPECTS using THERMAL SCREENING at ENTRANCES along with their ATTENDANCE.

- For Face Detection and Recognition, We have used **dlib's state-of-art** face recognition built using **Deep Learning** which has an accuracy of **99.38** percent on the Labeled Faces in the Wild benchmark. For mask Detection, Then we're using **SVM** classification **PCA** having an accuracy score of **95** percent.
- The CCTV IR feeds are processed and converted into **heat-map** image. Then we are **eroding** and *dilating* the heat-map image to enhance the image. Further we're finding the **contour points** of the image and comparing with the **threshold** temperature provided. The database is created using SQLite3 and all the **CRUD** operations (Create-Read-Update-Delete) have been properly managed.
- If any unknown person come across the CCTV their **Demographic Data** (Age range, Gender) will be stored on the database along with the timestamp and date. We have used some pre-trained data and **DNN** algorithm to detect the demographic data.

TIC-TAC-TOE Game | React.JS, SASS | [Link](#)

February 2022 – March 2022

- Developed a Single Page **TIC-TAC-TOE** Web-game App using **React.JS**
- Used React components to hierarchically pass down the **use-States** from top level to bottom level.
- Styled the whole app using **SASS (SCSS)** and used **conditional rendering** to the elements of the app

Technical Skills

Languages: C/C++, Python

Developer Tools: VS Code, Pycharme, Spyder

Technologies/Frameworks: Problem Solving, SQL, Tensorflow, OpenCV, Git

Achievements

- Smart India Hackathon 2022 Finalist under Problem Statement AK1146.
- Solved 300+ problem on coding platforms (Profile Links attached below).
- Recieved 6 Month LinkedIn Premium Subscription from Codechef for excelling in Starters 47.
- Scored 1744056 points in Google HashCode 2022 Qualifications Round.
- Cleared Google Codejam 2022 Qualifications Round.
- Have 3 star on Codechef (max rating 1639).
- Ranked 1 globally in June LONG 2022 TWO Division 4 in Codechef.
- Ranked 204 globally in June Lunchtime 2022 Division 4 in Codechef.
- Ranked 3814 globally in Google Kickstart Round D.

Coding Profiles

[Codechef](#) [CodeForces](#) [LeetCode](#) [GitHub](#) [GFG](#)

Leadership / Extracurricular

Google Developer Students club

2020 – Present

(Member)

Techno India University

- Actively participating in events organized by facilitators of the club and Participated in a lot of workshops on Web Development and Android Development

Languages

English - Native or Bilingual Proficiency **Hindi** - Native or Bilingual Proficiency **Bengali** - Native or Bilingual Proficiency

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