

SAYAN MUKHERJEE

Software Developer

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Education

Bachelor of Technology in Computer Science and Engineering

From University of Engineering and Management, Kolkata

Year of passing: 2023 Average CGPA till 5th sem: **8.91**

Projects

- **smartDeFi** (3 weeks): A successful approach of making a dApp based on Decentralized Finance. Check out the [github repo here](#).
- **Blockchain based eth-todo-list** (3 weeks): A successful approach to build a [blockchain app using Ethereum smart contracts](#). Creating a todo app with Ethereum smart contracts using the [Solidity programming language](#). (writing tests, deploying to the blockchain, and creating a client-side application) Check out the [github repo here](#).
- **Automatic Real Time Webcam based Heart Rate Monitoring System** (6 weeks): [A Machine Learning approach](#) that detects the heart-rate of an individual using a common webcam or network IP camera. This application uses [OpenCV](#) to find the location of the user's face, then isolate the forehead region. Data is collected from this location over time to estimate the user's heart rate. This is done by measuring average optical intensity in the forehead location. Check out the [github repo here](#).
- **Iris Detection** (6 weeks): [A Machine Learning approach](#) of ID detection through Iris. Developed seven layers of workflow in this system- LOCALIZATION> NORMALIZATION> ENHANCEMENT> EXTRACTION> MATCHING> EVALUATION> RECOGNITION. Check out the [github repo here](#).

Publications

- **Automatic Realtime Webcam Based Heart Rate Monitoring System**
Source: [American Journal of Electronics & Communication](#), Volume 3, Number 1, July 2022, pp. 1-6(6)
Publisher: [Society for Makers, Artists, Researchers and Technologists](#)
DOI: <https://doi.org/10.15864/ajec.3101>
- **Iris Recognition**- under publication under Global AI Congress 2022

Internships and Research Experiences

- **Research Intern (Mar'21-Present)** under the guidance of Prof. Dr. Sudipta Basu Pal in University of Engineering and Management, Kolkata. Projects done: "[Automatic Real Time Webcam Based Heart Rate Monitoring System](#)", "[Iris Recognition](#)".
- **Web Developer Intern (Oct'20-Mar'21)** in [SCIENOVEX Education & Technology Solutions Pvt. Ltd.](#) Developed B2B projects with [React.js](#), [Django](#). Testing tool used [Postman](#).
- Participated in **GirlScript Summer of Code'20**. Started my opensource journey by contributing to the project [FaceX](#).

Skills

- ☐ Languages: **C, C++, Java**
- ☐ Frameworks: **React.js, Node.js, Django**
- ☐ Tech Stacks: **Python, JavaScript, MySQL, Apache**
- ☐ Version Control System: **Git (GBS)**
- ☐ Tech Skills: **Web Development, Android Development, Cloud**
- ☐ Operating System: **Linux, Windows, UNIX**

Subject of Interest

- | | | |
|---|-------------------------------------|--------------------------------------|
| <input type="checkbox"/> Data Structures | <input type="checkbox"/> Blockchain | <input type="checkbox"/> IOT |
| <input type="checkbox"/> Algorithms | <input type="checkbox"/> Web 3 | <input type="checkbox"/> Open Source |
| <input type="checkbox"/> Database Management System | <input type="checkbox"/> Kubernetes | |

Languages

- English (fluent)
- Bengali (mother tongue)
- Hindi (Speaking Proficiency)