

# SAYAK GHORAI

Kolkata, India

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## INTERNSHIP EXPERIENCE

### Center of Excellence in Education Technology

Technology & Media Desk Lead

Jan 2024 - May 2024

NIIT University

- Helped to facilitate 150+ academic projects including 40+ industry linked projects
- Developed automations using APIs, and Python resulting into efficient project execution
- Created comprehensive documentation for project tools, detailing user instructions, potential issues, and solutions

### Cats In Lab Coats (Startup)

Technical Intern

Sep 2022 - Apr 2024

NIIT University

- Developed ML models for near real-time image processing
- Contributed to assembling UAVs and Rover models for agriculture and defense
- Experienced in remote UAV piloting and ground controlling during medium/large-scale drone operations.

### Center of Excellence in Education Technology

Technology & Media Desk Lead

Feb 2020 - Jan 2021

NIIT University

- Helped to facilitate 100+ academic and several industry-linked projects by providing technical support and guidance
- Organized a workshop on using project management tools like Asana, successfully attracting over 250 participants
- Conducted data analysis for student assessment, aiding faculty with insightful reports

## PROJECTS

### Library Manager WebApp » [sg34-library-manager.netlify.app](https://sg34-library-manager.netlify.app)

React, Node.js, Express.js, MongoDB

A Simplified Library Management System for Library Authority

- Multi-Scene WebApp for book and user management using CRUD, with Check-in, Check-out books with slip generation
- Simplified Dashboard design using tailwind-css, and Regex match searching for easy resource handling
- GitHub:** [sayakghorai34/Library-Management-System.git](https://github.com/sayakghorai34/Library-Management-System.git)

### PeerMeet » <https://sg34-peermeet.netlify.app/>

React, Node.js, Express.js, MongoDB, VideoSDK

SDK based High Resolution Video Conferencing Application

- Zoom like video conferencing application with improved video quality, audio quality, and significantly less latency
- GitHub:** [sayakghorai34/PeerMeet.git](https://github.com/sayakghorai34/PeerMeet.git)

### R&D on CNN based Human Face Emotion Detection

TensorFlow, Pandas, Scikit-learn

Classification model to detect human face emotions

- Explored Residual and Parallel connection blocks, different optimisation techniques and loss functions
- Achieved 63% accuracy on FER2013 and 68% accuracy on AffectNet dataset, using built from scratch model
- Google Docs:** [Human Face Emotion Detection using Face Images](#)

### R&D on IOT based HealthCare

JavaFX, JavaScript, MySQL, ThingSpeak

IOT based Health Monitoring and Online Discussion Forum with Doctor

- Prototype measures body temperature, SpO2, Heart rate and stores in cloud. Assigned doctor can see the records in the dashboard and do chat in the application
- Developed concept using Arduino Uno, MAX30102, TSYS01-1, and prototype using similar alternatives
- Google Docs:** [IOT- BASED HEALTH MONITORING AND ONLINE DISCUSSION FORUM WITH DOCTOR](#)

## TECHNICAL SKILLS

- Strong Areas:** Machine Learning, Deep Learning, Artificial Intelligence, Digital Image Processing, Computer Vision
- Programming Languages:** Python, JavaScript, Java, C/C++ (Arduino)
- Libraries/Frameworks:** React.js, Express.js, Node.js, Redis, HTML5, CSS3, Tailwind CSS, Git
- Database:** MongoDB, MySQL
- Platforms:** Render, Vercel, Netlify, firebase, Kaggle, GitHub
- Tools:** VS Code, IntelliJ, Google Collab, Asana, GitScrum, Trello, Google Analytics, Labelbox, Final Cut Pro, GarageBand

## EDUCATION

### Bachelor of Technology in Computer Science and Engineering (AI)

Aug 2015 - Aug 2019

NIIT University, Neemrana

- Maintained a 9.43/10 CGPA while continuing musical hobbies through efficient time management ([marksheets](#))

## CERTIFICATES

### PCAP: Programming Essentials in Python (7 Apr 2022) » [view certificate](#)

7Apr, 2022