

Sagnik Santra

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EXPERIENCE

- **BallotPlay** Remote
Web Dev Intern June 2023 - Aug 2023
 - **Product:** Fantasy Gaming Platform
 - : Developing the website from scratch, handling frontend coding using React and implementing APIs for seamless functionality.
 - : Utilized MongoDB and Express for the backend, ensuring efficient data management and integrity
 - **Technologies Used:** MongoDB, Express, React, Redux, Tailwind, NodeJS, Typescript
- **ECell MIT Manipal** Manipal
Web Developer Dec 2022 - Feb 2023
 - : Created the official website for Manipal Entrepreneurship Summit 2023, attracting over **5000+** users.
 - **Technologies Used:** MongoDB, Express, React, NodeJS

POSITIONS OF RESPONSIBILITY

- **International Delegate - HPAIR:** Selected as a prestigious delegate representing the **Harvard College Project for Asian and International Relations** at the Asia Conference in Hong Kong.
- **Technical Head - ECell MIT:** Organized online and offline technical training for **100+** students, contributing to their skill development. Played a pivotal role in successfully conducting MES 2023, one of the largest Entrepreneurship Summits in Southern India. Developed the event registration website from scratch, streamlining the registration process.
- **Project and Sponsorship Head - IECSE:** Explored web development and machine learning at a core level, driving innovation and collaboration. Provided guidance and assistance to fellow members in the field of machine learning.
- **Management Committee Member - RedX Manipal:** Managed a community of **200+** members, focused on providing aid to underprivileged people in society. Conceptualized and developed the organization's website from scratch, effectively showcasing its vision and initiatives. ([link to website](#))

PROJECTS

- **Ann-Data (Web Development, Full Stack Deployment, Typescript, MERN, Redux):** *Revolutionizing Indian Agriculture:* Anndata, a tech-driven platform, empowers farmers with AI-driven precision techniques. Features include a personalized AI chatbot, disease detection using *YOLO v8*, a disruptive marketplace, collaborative QnA forums, and crop recommendations. Built with *React, Tailwind, Node.js, MongoDB, and Python* (for ML), incorporating *Razorpay* for payments. ([link to project](#))
- **Skillynk (AI, Image Detection, Full Stack):** Developed a dynamic course-selling platform using *Typescript* and *React* for the frontend, with a *MongoDB* backend. Implemented state management with *Redux* for seamless user experience. ([link to project](#))
- **AlooQ (CNN, FastAPI, TF Serving, React, Image Detection and Classification):** Designed a web application for disease detection in potato leaves (early blight and late blight) by analyzing leaf images using deep learning techniques. Deployed the model using *TF serving* and employed a *FastAPI* server with *uvicorn* for seamless functionality. The model is trained using *Convolutional Neural Networks*. ([link to project](#))
- **MES 2023 Website (Full Stack Deployment, MERN, UI/UX):** Spearheaded the end-to-end development of MES 2023's website, showcasing event details and schedules with a user-friendly interface. ◦ Implemented Registration and Login features, empowering users to easily sign up for their preferred events, with data storage in *MongoDB* for seamless management. ◦ Ensured cross-device compatibility with a responsive design, optimizing user experience across all platforms. ([link to project](#))

SKILLS

- **Technical:** C++(Advanced), C(Advanced), Python(Intermediate), Pandas(Intermediate), HTML5/CSS(Intermediate), Oracle SQL(Intermediate), Java(Intermediate), JavaScript(Intermediate)
- **Soft Skills:** Project Management, Leadership, Verbal and Written Communication, Teamwork, Creativity
- **Coursework:** Web Development Bootcamp by Angela Yu (Udemy), Introduction to Machine Learning by Andrew NG (Coursera), Frontend Development Specialization by META (Cousera) , Data Structures and Algorithms (Coding Ninjas)

ACHIEVEMENTS

- Selected among top **7** finalist in the nationwide hackathon HACK'L'TH conducted by **GE Healthcare**. Over **thousands** of students from best institutes all over India participated in this hackathon.
- Secured **1st** position under W20 category out of **200+** participants and in the APPLab Hackathon conducted by MAHE Innovation Centre for making the W-Connect web app
- Recipient of the **AICTE** scholarship for my Engineering Education

EDUCATION

- **Manipal Institute of Technology** Manipal, India
Bachelor of Technology - Data Science and Engineering Graduating 2025
Courses: Data Structures, Algorithms, Database Management, Computer Structures and Architecture, Computer Networking, Object Oriented Programming, Machine Learning
- **Vivekananda Mission School** Kolkata, India
Courses: Physics, Chemistry, Mathematics, Computer Science