



AYUSH SAXENA | 19NA30006

OCEAN & NAVAL ARCH / OCEAN ENGG. NAVAL ARCH. (M.Tech Dual 5Y)

[LINKEDIN](#) | [GITHUB](#) | [WEBSITE](#)



## EDUCATION

Year	Degree/Exam	Institute	CGPA/Marks
2024	M.TECH Dual Degree 5Y	IIT Kharagpur	7.85 / 10
2018	AISSCE(CBSE)	VKS Public School, Moradabad	84.40%
2016	CISCE	Wilsonia College, Moradabad	68.5%

## INTERNSHIPS

### TransOrg Analytics | Software Developer

[June'22 – July'23]

- Developed and maintained the back-end of the websites TransOrg Analytics and PickleAI using tech stack **Django, Python, Ajax, JavaScript**.
- Keeping the back-ends of TransOrg Analytics and Pickl AI on **Amazon Web Services** updated and deployed the real-time modifications.
- Added an administrator page to **monitor user details, active/logged in sessions, IP addresses, unique and total viewers on each web page**.
- Enhanced admin panel security with **middleware and RBAC** to restrict access to sensitive site information to authorized personnel only.
- Developed secure **company management panel**, enabling streamlined collaboration and control over site content and user-related functions

## PROJECTS

### PILOT-LMS | Kaushal Kumar Bhagat IIT Kharagpur

[Jan'22-April'23]

GitHub Link: <https://github.com/ayushsaxenagithub/PilotLMS>

- Developed a web-based Learning Management System (LMS) from scratch using **Python, JavaScript, Django**, HTML, CSS, and Bootstrap.
- Implemented user roles (**Student, Teacher, Organization, and Admin**) with separate dashboards for efficient course management system.
- Introduced unique features for organizations, including teacher selection through **domain email IDs** and comprehensive user control.
- Facilitated flexible teaching arrangements: teachers can conduct courses independently with admin approval or assigned by organizations.
- Developed **Analytics Dashboard** for teachers: course performance insights, student progress tracking, and quiz integration in videos lectures.

### Ecommerce Website | Self Project

[May'22]

GitHub Link: [https://github.com/ayushsaxenagithub/ecommerce\\_website](https://github.com/ayushsaxenagithub/ecommerce_website)

- Developed a web-based e-commerce application from scratch using the tech stack **Python, Django Rest API, ReactJS**, HTML, CSS, JavaScript.
- Implemented user roles (Student, Teacher, Organization, and Admin) with separate dashboards for efficient course management system.
- Introduced unique features for organizations, including teacher selection through domain email IDs and comprehensive user control.

### Freelancers Marketplace | Self Project

[December'21]

GitHub Link: [https://github.com/ayushsaxenagithub/Freelancer\\_MarketPlace](https://github.com/ayushsaxenagithub/Freelancer_MarketPlace)

- Developed a web-based Freelancer Marketplace application from scratch using the tech stack **Python, Django**, HTML, CSS, and Bootstrap.
- Implemented features for the authenticated users to showcase their profiles, mention their skills, and show their projects with many details.
- Built the search engine from scratch to search freelancers from their names and projects, and projects from their names, owners, and tags.

## COMPETITION/CONFERENCE

### Open Soft | Inter Hall Competition

[2022]

- Created an e-commerce website application from scratch using the tech stack **Flask, Python, HTML, CSS, JavaScript, SQLite**, and **Bootstrap**.
- Worked on the user interface and architecture on the front-end of the e-commerce application and integrated it with the back-end side.
- Integrated database and store the data in real-time into variables to display on the e-commerce website using JavaScript, flask and Ajax.

## COURSEWORK INFORMATION

Programming and Data Structures | Algorithmic Toolbox (Coursera) | Programming and Data Structures Laboratory | Safety Engineering and Management | Economics | Engineering Drawing & Computer Graphics

**Mooc:** React Course Freecodecamp | flask Course Freecodecamp | Data Analysis with Python Freecodecamp

## SKILLS AND EXPERTISE

**Languages:** Python | C++ | JavaScript | C | HTML | CSS

**Framework:** Django | NodeJs | Flask | Express

**Libraries:** NumPy | Pandas | Matplotlib | SciPy | Seaborn | REACTJS

**Utilities:** AUTOCAD | MS Excel | MS PowerPoint | Solidworks

## POSITIONS OF RESPONSIBILITY

### Executive Member| SARTH | IIT Kharagpur

[July'19 - Present]

- A social organization run by students to educate the underprivileged in nearby areas of the Indian Institute of Technology Kharagpur
- Led and managed extracurricular activity sessions and sports activity for children of rural areas to discover their passions and skills
- Conducted and managed clothing collection drives for Midnapore district's underprivileged residents and a tree plantation drive every year

### Events Head | NAROES | IIT Kharagpur

[July'21 - July 22]

- Successfully led NAROES a departmental society's team, and effectively organised all events as Events Head at IIT Kharagpur
- Designed and regulated events for the 14th edition of national-level departmental fest Samudramanthan with over 250 participants
- Managed and planned events such as Convocation, Induction program, and Panel talks from Alumni for departmental students

### Sub Head| NAROES | IIT Kharagpur

[July'20 - July'21]

- Organized and managed the 13th edition of Samudramanthan, a national-level departmental fest of NAROES with over 200 participants
- Raised sponsorship from companies, deploy problem statements in events taken from sponsorship company and managed all its events

## EXTRA CURRICULAR ACTIVITIES

- Member of the basketball team and Cricket team at Meghnad Saha Hall of Residence for the 2022 Inter-Hall Competition IIT Kharagpur
- Associate Member at NAROES a departmental society of the Department of Ocean Engineering and Naval Architecture, IIT Kharagpur