SHREYANS | 20IE10033

INSTRUMENTATION ENGG. (B.Tech 4Y)
MICRO SPL. in ENTREPRENEURSHIP AND INNOVATION

EDUCATION

Year	Degree/Exam	Institute	CGPA/Marks
2024	B.TECH	IIT Kharagpur	7.96 / 10
2019	All India Senior School Certificate Examination	Ramakrishna Mission Vidyapith, Deoghar	92.8%
2017	All India Secondary School Examination	DAV Public School, Deoghar	10 / 10

INTERNSHIPS

Software Development Engineer Intern | Samsung Research and Institute, Delhi [May'23-Jul'23]
- Developed a comprehensive **language learning** web application utilizing **Reactjs** for frontend and **Nodejs,** and **Expressjs** for backend
- Employed **ffmpeg** to extract **10-sec** frame from a video and transcribed it to text using **Whisper OpenAI NLP** model with **96% accuracy**
- Utilized **nltk** to dynamically assign grammatical tags to each word, and presented in a tabular format within **5-8 sec** model running time
- Integrated **dictionaryapi**, showcasing comprehensive word information in modal interface and automated the project through **.bat** file

Technology Analyst Intern | Hippiees [Jan'23-Feb'23]
- Enhanced the **visa service** website by troubleshooting issues and elevating user experience utilizing **PHP** for the backend development
- Improved the website **lighthouse** performance by **3%**, augmenting **accessibility** by **1%**, and **SEO** ranking by **2%**, fostering online visibility
- Executed seamless deployment of the website via **FileZilla** tool, leveraging **Apache server** for reliable hosting with uninterrupted access

Business Development Associate Intern | Chatur Ideas [Dec'22]
- Conducted a comprehensive **research** on diverse startups, formulating brochures and pitch decks, and analyzed various funding rounds
- Spearheaded collaboration with **6** Entrepreneurship Cells from various colleges and arranged discussion meetings with emerging startups

PROJECTS

Educate-Bharat: E-learning Website | Self-Project [Apr'22-Jun'22]
- Developed a course-centric website hosted on **Render** which offers course and educator details, registration, **login** and **logou**t features
- Employed **HTML, CSS**, **Handlebars**, and **Javascript** for frontend development, while utilsing **Node.js, Express.js** for backend integration
- Incorporated **MongoDB** database with **Mongoose** library, facilitating registration, and leveraged **MongoDB Atlas** for storage on cloud
- Implemented security using **Bycrypt** with **10** salting rounds for hashing, email validation via **Validators**, and user authentication via **JWT**

Automatic Lighting System | Course Project | Prof. Prajit Nandi [Jan'23-Apr'23]
- Designed an automated room and street lighting system based on human presence using **Infrared sensor**, and **real-time** person **tracking**
- Conducted **compatibility tests**, discussed pin configurations, analyzed **battery life**, and formulated **risk assessment** and mitigation plan
- Executed a **simulation** in **Proteus**, integrating it with **Arduino IDE**'s coded solution, and successfully implemented **hardware** simulations

Homi Jehangir Bhabha Hall of Residence Website | IIT Kharagpur [Jun'22-July'22]
- Developed a comprehensive, responsive website for HJB Hall, serving as the official central hub for hall-related news and information
- Designed the prototype of the website using **Figma** and utilized **HTML, CSS**, and **Javascript** to develop multiple pages of the frontend

COMPETITION/CONFERENCE

- Secured a position within the top 3% of Global Competitive Programmers on **Codeforces**, holding a peak rating of **1450** (@Shreyans_6_5)
- Demonstrated prowess as a 3-star coder, achieving overall peak rating of **1711** on the global coding platform, **Codechef** (@shreyans_1)
- Attained a global rank of **99** in May **Long** One 2022 **Division 3** (**CodeChef** contest), outshining a competitive cohort of **18,557** participants
- Achieved global rank of **1307** in the Polynomial Round 2022 (**Div. 1 + Div. 2**) (**Codeforces** contest), prevailing among **18,217** participants
- Accomplished global rank of **462** in the Starters 59 **Division 2** (**CodeChef** contest), amidst a competitive gathering of **19,233** participants
- Displayed commitment by solving **over 300** data structures and algorithms problems on **InterviewBit**, earning a notable score of over **42k**
- Secured **State rank 7** in the International **Olympiad** of **Mathematics** 2018 and **State rank 16** in International Olympiad of **Science** 2018

SKILLS AND EXPERTISE

Languages: C++, C, Python, HTML, CSS, Javascript | **Softwares/Tools:** Git, GitHub, Matlab, MS Office, Figma, Filezilla, LaTex, Vs Code
Frameworks/Libraries: Reactjs, Nodejs, ExpressJs, MongoDB, Mongoose, Bootstrap, PHP, Nltk, ffmpeg, moviepy, opencv, numpy, STL

COURSEWORK INFORMATION

Programming and Data Structures* | Computer Architecture and Operating System | Object Oriented Programming System | Probability and Statistics | Stochastic Processes and Applications | Signal and System* | Digital Speech Processing* | Introduction to Innovation and Entrepreneurship | Entrepreneurship Essentials | Financial Aspects of New Technology Ventures   (* Both theory and Lab)

POSITIONS OF RESPONSIBILITY

Sponsorship and Marketing Head | Space Technology Students Society [May'22-Apr'23]
- Spearheaded India's largest space-tech fest with participation of **500+ offline** and **2000+ online** enthusiastic individuals across the nation
- Negotiated and finalized **18** strategic sponsorship agreements, along with the marketing of the fest with **5** media and outreach partners

Senior Editor | Technology Literary Society [Jun'22-May'23]
- Pioneered society activities like organizing various events, workshops, and production groups, while also contributing to poetry discussions

EXTRA CURRICULAR ACTIVITIES

- Enlisted as a cadet in the National Cadet Corps (NCC) for a duration of 2 years, cultivating invaluable attributes of discipline and teamwork
- Contributed as a pivotal member of the Interhall Cricket and Interhall Table-Tennis team for HJB Hall during the academic year 2021-2022
- Attained the commendable 5th position out of 18 participating halls in the General Championship of 2023 for Hindi Elocution Competition
- Contributed in the Illumination event of the year 2022, showcasing adept leadership, strategic planning, and astute management abilities