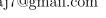
SHREYANS



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EDUCATION

\mathbf{Degree}	Institute	${ m CGPA/Percentage}$	Year
B.Tech (Electrical)	Indian Institute of Technology, Kharagpur	8.10	04/2024
AISSCE (Class XII)	Ramakrishna Mission Vidyapith, Deoghar	92.8%	04/2019
AISSE (Class X)	DAV Public School, Deoghar	10.0	03/2017

Internships

• SDE Intern | Samsung R&D Institute, Delhi | certificate:

- o Developed language learning web application using **Reactjs** for the frontend and **Nodejs**, **Expressjs** for backend development
- Employed ffmpeg to extract a 10-sec frame and transcribed it to text using Whisper OpenAI NLP model with 96% accuracy
- Utilized nltk to dynamically assign grammatical tags, and presented in a tabular format within 10-15 sec model running time
- o Integrated dictionaryapi, showcasing each word information in modal interface, and automated the project using a batch script
- Technology Analyst Intern | Hippiees | certificate:

- rechnology Analyst Intern | Hippiees | certificate:

 Enhanced the visa service website and improving lighthouse performance by 3%, and maintaining scripts for MYSQL database
- Handled HTTP methods with handling exceptions on user registration utilizing middlewares for the secured file handling in PHP
- Executed deployment via FileZilla, leveraging the Apache server for reliable hosting and handling queries through PhpMyAdmin

PROJECTS

• Blog-Vista: Blog Website | qithub:

- o Developed a blogging website where 10+ users posted blogs after signing up (login/register), & given feedback on other's blogs
- Engineered a responsive UI with Material-UI & React to enhance experience, resulting in a 40% decrease in page load times
- Established backend with an Expressjs server, incorporating middlewares, and connecting to MongoDB for the data storage
- Built RESTful API routes & controllers, handling 100+ comments, employed JWT for authentication, & Bcrypt for hashing
- C++ Online Compiler | *github* | *Link*:

- Built C++ online compiler hosted on AWS, facilitating compilation and execution of cpp code within the Nodejs environment
- Ensured secure execution of each instance of the code within **Docker** runtime, ensuring the security & isolation of the device
- Established authentication with JWT, Nodemailer for 6-digit OTP email verification, and MongoDB Atlas for data storage
- Educate Bharat: E-learning Website | *qithub* | *Link*:

- Hosted the website on Render with 20+ students data which offers course details, registration, login, and logout features
- $\circ \ \ \text{Employed HTML, CSS, Handlebars, and Javascript for frontend development, while utilizing Nodejs, express for backend}$ Incorporated MongoDB with Mongoose, facilitating 20+ registration, & leveraged MongoDB Atlas for cloud data storage
- Implemented Bcrypt for password hashing with 10 rounds of salting, validators for validation, and JWT for user authentication
- Automatic Lighting System | Course Project | Prof. Prajit Nandi | Presentation:

- Designed an automated lighting system based on human presence using IR sensor, and real-time tracking in a team of 3 members
- o Calculated BOM cost (Rs. 920), conducted compatibility tests, pin configurations, and analyzed battery life (range: 16 32 hrs)
- Executed Proteus simulation with 500 ms lag, integrating with Arduino IDE's coded solution, and implemented the hardware

Awards and Achievements

- 1: Achieved rating of 1450 (specialist) on Codeforces (@ Shreyans_6_5) and 1711 on CodeChef (@ shreyans_1
- 2: Secured global rank 1307 in Polynomial Round 2022 (Div. 1 + Div. 2) and 1343 in Codeforces Round 839 (Div. 3)
- 3: Attained a global rank of 99 in May Long One 2022 Division 3 and 462 in Starters 59 Division 2 (CodeChef contest)
- 4: Secured an AIR within top 3.5% (among 170k) in JEE Advanced 2020 and top 1% (among 1.2million) in JEE Mains 2020
- 5: Obtained State rank 7 in International Olympiad of Mathematics 2018 and 16 in International Olympiad of Science 2018

Skills and Courses

- Courses: Data Structures, Algorithms, OOPS, Operating Systems, Computer Networks, DBMS, Probability & Statistics
- Languages: C++, Python, HTML, CSS, Javascript, Typescript, SQL, PHP
- Softwares/Tools: Git, GitHub, Postman, PhpMyAdmin, MS Office, Figma, Filezilla, LaTex
- Frameworks/Libraries: Reactjs, Nodejs, Expressjs, MongoDB, Tailwind, Bootstrap, Nltk, Pandas, Material UI, Docker

Positions of Responsibility

May'22 - Apr'23 • Sponsorship and Marketing Head: Space Technology Students' Society: | Proof Spearheaded India's largest space-tech fest with 2000+ participants, in addition to finalizing 23 strategic sponsorship agreements

Jun'22 - May'23 • Governing Member: Technology Literary Society: | Proof Pioneered society activities like organizing Kavyasandhya and Kavyanjali for 250+ literary enthusiasts, fostering literary culture