HARSH NIGAM

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Education

Indian Institute of Technology Kharagpur　　**2020 - 2025**
Dual Degree B.Tech/M.Tech in Electrical Engineering , 8.56　　*Kharagpur , West Bengal*

S.R Public School　　**2020**
Class-XII (CBSE) , 91.4%　　*Kota , Rajasthan*

St. Francis School　　**2018**
Class-X (CBSE) , 89.8%　　*Sonbhadra , Uttar Pradesh*

Projects

NeoBank FinTech Application , Open Soft , Inter Hall , Gold | *React, Python, Docker*　　**Mar'23 - Apr'23**
- Created a scalable app using microservice architecture, implemented a Hybrid Cloud solution to ensure high availability
- Containerized each microservice using Docker and utilized OpenShift as an efficient orchestrator for seamless scaling
- Engineered a REST API using the Django Rest Framework and utilized PostgreSQL as database for secure application
- Implemented an efficient Zero-Shot Text Classification Model for automated categorization for diverse transaction types

CareerLink: Job Portal App | *MERN*　　**Apr'23 - June'23**
- Built a dynamic full-stack job portal web app using the MERN tech stack which featured a responsive user interface
- Developed the web app using React for frontend, Redux-Thunk for asynchronous operations using AntD frameworks
- Utilized NodeJS for runtime environment, ExpressJS for backend routing and MongoDB for database management
- Leveraged the Redux states, reducers and middlewares to deliver seamless job and user management functionality

GlobeTrek Tours and Travels | *MERN*　　**July 2023**
- Built a full-stack website for a Tours and Travel where users can easily book tickets based on their requirements
- Utilized HTML and CSS for front-end, ExpressJS as the back-end server and MongoDB for database management
- Modelled a user-friendly online booking system with different accessibility levels for the admin and staff members

Pong Game | *C++*　　**March 2022**
- Created a Pong game in C++ with classic gaming features using OOP principles for efficient code organization
- Developed the game with graphics libraries for rendering, responsive gameplay through keyboard/mouse input
- Performed playtesting, debugging, and integrated sound effects and background music to enhance the gaming experience

Technical Skills

Languages: Python, C++, C, Java, HTML , CSS, JavaScript, SQL, Git, Embedded C, Arduino, LaTex, MATLAB
Developer Tools: VS Code, Google Colab, MS Excel, NumPy, Pandas, Matplotlib, PyTorch, TensorFlow, Tableau
Technologies/Frameworks: Machine Learning, Web Development, Database Management

Relevant Coursework

- Data Structures
- Algorithms
- Probability and Statistics
- Advanced Calculus
- Machine Learning
- Database Management
- Linear Algebra
- Computer Architecture

Positions of Responsibility

Spring Fest　　**Sep' 2021 - Apr' 2022**
Core Organizing Team Member　　*IIT Kharagpur*
- Managed Mumbai sponsorship drive, secured INR 3.02 Lacs via alumni, a 13% YoY increase
- Solely Responsible for conducting an Instrumental Competition which saw vast participation of 35 candidates
- Managed AngelB (US Singer) and BlackRhythm (Canadian Beatboxer) for Spring Fest 2022 International Carnival
- Spearheaded a campaign with 124% YoY increase in Uttar Pradesh participation in publicizing the Fest in 150+ colleges

RadhaKrishnan Hall of Residence　　**July'2022 - Present**
Captain - Badminton　　*IIT Kharagpur*
- Led the Hall's Badminton Team in the General Championship, showcasing strong leadership and motivation skills
- Motivated and coached juniors by organizing team-building and gameplay activities helping players cultivate team spirit

Extra Curricular Activities

- Member of the Silver-winning Basketball team representing Radhakrishnan Hall in Inter-hall General Championship 2022
- Represented Institute Badminton Team in 2022 with exceptional talent, achieving notable results and personal growth
- Represented Radhakrishnan Hall of Residence at the Inter Hall Short Film Making Gymkhana Championship 2022