Shreya Nigwal

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Year	Degree/Certificate	Institute	$\mathbf{CPI}/\%$
2020-Present	B.Tech	Indian Institute of Technology, Kanpur	7.14/10.0
2019	CBSE(XII)	Kendriya Vidyalaya, Khargone	81.8%
2017	CBSE(X)	Kendriya Vidyalaya, Khargone	10.0/10.0

Work Experience

- SURGE Intern: Chladni Patterns On Square Plate | Under Prof. Anurag Tripathi, IITK
- May'22-Ongoing
- Gathered information about the phenomenon **Chladni Patterns** and **investigated** the reason behind their formation
- Cumulated data about the materials used in the experiment from research papers to perform the practical in laboratory
- Established a relation between material parameters, resonant frequency, dimensions of chladni Plate
- Using MATLAB prepared data-sets for different metals, plotted the graph between metal's dimensional parameters
- Composed a **research paper**, including the obtained data-set and established relation

Projects

• IITK Automation Portal Scrapper | Self Project 🔾

Nov'21-Dec'21

- Aim was to learn basics of Web-Scraping using python library BeautifulSoup and extract IITK student data
- Scraped IITK faculty data and students data from Automation portal of IIT Kanpur and stored it in csv format
- Implemented **Django** to save scrapped data for Student Search Website where data of any IITK student can be found
- Portfolio Project | Self Project 🗘

Nov'21-Dec'21

- As a start to front-end web-developer, learnt HTML, CSS and JavaScript and a framework Bootstrap
- Later on finalised the design for my website and developed a portfolio website using coding and **Bootstrap** libraries
- Process Simulation And Modelling In ASPEN PLUS | SimuTech, Chemineers Society, IITK Mar'22-Jun'22
- Aimed to understand mathematical model working of **Aspen Plus** and optimize the process design after **simulation**
- Explored the designing and operations of various devices such as reactors, separators and columns
- Designed the process by specifying the operating conditions, compositions and physical properties of the process streams
- Specified Sizing of equipment's and **produced** economical and quality products
- $\bullet \ \ \mathbf{Thermodynamics} \ | \ \mathit{Course Project, Prof. Vishal Agarwal}$

Jan'22-Apr'22

- Applied antoine's equation and van laar activity coefficient model to study modified Raoult's Law
- Implemented the equation in MATLAB for Water and N,N-Dimethylacetamide system and obtained y vs x plot
- Computed isobaric T vs x,y diagram and compared the obtained graphs in MATLAB with the experimental results

Technical Skills

- Programming Languages: C, C++, LATEX, SQL, Python
- Libraries: Numpy, Pandas, Matplotlib, BeautifulSoup
- Software and Utilities: Git, Linux, Visual Studio code, MySQL

Relevant Coursework

Fundamentals of Computing	Real Analysis and calculus	Linear Algebra and ODE
Computational Method in ENGg	Introduction to Electronics	Fluid Mech, its application
Chemical Thermodynamics	Chemical Processes Industries	Thermodynamics

Position Of Responsibilities

• Organizer, Show Management, Antaragni

Jul'22-Ongoing

- Managed selection process of 50+ secretaries and volunteers to support management work in the fest
- Spearheading a large 3-tier team of secretaries and volunteers to ensure consistent progress of creative work for Fest
- Responsible for management of all the show requirements beforehand, planning the layout, booking venues for events
- Assisting the heads for smooth conduction of Antaragni'22, one of Asia's largest student organized festival
- Project Mentor, Association For Computing Activities, IIT Kanpur

Jun'22-Ongoing

- Finalized the project timeline, presented the idea and addressed the application of the project
- Mentored 17+ students to learn basic Reinforcement Learning concepts, prepared weekly assignments
- Cleared the **doubts** of mentees, Took in-person sessions to introduce new concepts and **published tutorial blogs**
- Secretary, Hospitality And Transport, Antaragni

Sep'21-May'22

- Responsible for **organizing** remote online **competitions** in Dance, Music, Dramatics and Literature in Antaragni'21
- Managed some documentation work, clearing of bills and signatures for permission of some events from IITK authorities

Extra-Curricular Activities

- Cultural And Sports
 - Secured first position in badminton in sports event, Ranbhoomi conducted by Games and Sports Council, IITK
 - Participated in various Dance events like bollyweek, conducted by dance club, IITK