APARNA DUBEY

ACADEMIC PROFILE

Degree/Certificate	Institution	Percentage/CGPA	Year
IDD	Metallurgical Engineering IIT (BHU), Varanasi	9.00	2026
ISC (XII)	St. Xavier's Convent School, Lucknow	80.20	2020
CBSE (X)	Delhi Public School Indira Nagar, Lucknow	93.80	2018

SKILLS

Programming Languages: C/C++, JavaScript, Python
Frameworks and Technologies: React.js, Node.js, Express, MongoDB, Firebase, GitHub
Areas of Interest: Data Structures & Algorithms, Competitive Programming, Web Development

INTERNSHIP/TRAINING

SPARK 2024 | IIT Roorkee — May'24-June'24

Computational study on Corrosion resistance of 316 Austenitic Steel under Prof. G.P. Chaudhari

- Conducted **Corrosion Resistance Test and Nitriding** for different microstructures of **316 Stainless Steel**.
- Utilized softwares like **Xpert HighScore, OriginPro, and Squidstat Potentiostat** for the study. | [Project]

PROJECTS

ShopSmart | eCommerce Website — Mar'24-Apr'24

- Developed a **MERN stack eCommerce website** with secure **register** and **login** authentication for user data integrity.
- Managed **SEO** to enhance website visibility and reach, optimizing for search engine rankings.
- Designed admin and user panels with **CRUD operations**, filters, cart functionality, and **payment gateway** integration.
- **Exposure:** React.js, Bootstrap, Express, JWT, REST API and MongoDB | [GitHub Repo]

Real Time Chat Application — Jan'24-Feb'24

- Managed state with React built-in **state** and **props**, and utilized Firebase real-time database for dynamic chat updates.
- Implemented secure authentication for user **registration**, **login**, and personalized chat experiences.
- **Exposure:** React.js, Tailwind CSS, Firebase | [GitHub Repo]

Shortest Path Visualizer — Oct'23-Nov'23

- Implemented **Dijkstra's algorithm** for efficient shortest path visualization in JavaScript.
- Managed **user-created obstacles** within a grid for accurate pathfinding logic.
- Utilized React **props** to enhance **UI interactivity** and design for a seamless user experience. | [Live Link]

POSITION OF RESPONSIBILITY

Tech Team Member | MetSoc, IIT (BHU) Varanasi — Aug'23-Present

- Collaborated in developing and managing the **MetSoc** website, focusing on **designing** web pages.
- Managed GitHub for seamless integration, **mentored freshers** on new features, and upcoming **events**. | [Website]

DUGC Member | Humanistic Department, IIT (BHU) Varanasi — Aug'23-July'24

- Facilitated **student-faculty communication** through feedback collection and presentation at DUGC meetings.
- Collaborated on **academic issues**, improvements, and exam **timetable scheduling** efficiently.

HONOURS AND ACHIEVEMENTS

- Secured **Department Rank 1** in Metallurgy, IDD (2021-2026) with **highest CPI**.
- Scored **100** percentile in **Computational Thinking** and cleared Qualifier Exam for B.S. in Data Science at IIT Madras.
- Successfully completed **Hacktoberfest 2022** and **Hacktoberfest 2023**, contributing to various **open-source** projects.

Ratings

- **3* Star on CodeChef** | Max Rating: 1674 | [Profile Link]
- **Pupil on Codeforces** | Max Rating: 1270 | [Profile Link]

EXTRA-CURRICULAR ACTIVITIES

- Secured **2nd position** in **Intra freshers Group singing competition** in Aagman 2021 conducted by IMC, IIT BHU.
- Worked in **MetWaste'2023** team with efficient planning, coordination, and execution of a highly attended event.

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