ATUL YADAV

ACADEMIC PROFILE

Degree/Certificate	Institution	Percentage/CGPA	Year
IDD	Metallurgical Engineering IIT (BHU), Varanasi	7.91	2026
CBSE (XII)	Dawn The Higher School Allahabad UP	94.20	2021
CBSE (X)	Dawn The Higher School Allahabad UP	94.20	2019

SKILLS

- **Programming Languages:** C, C++, Javascript, Python
- **HTTP APIs:** Express, Django, GraphQL
- **Frameworks and Technologies:** ReactJS, NextJS, MongoDB, PostgreSQL, Git, GitHub, Figma, SQL, HTML, CSS
- **Areas of Interest:** Steel making technology, Heat treatment, Web Development

PROJECTS

Quantitative Analysis of Al-Si Hypereutectic Alloys Under SIMA Processing · Jan'24 - July'24

Under the supervision of Prof J.K. Singh

- Conducted quantitative analysis of phase morphologies in Al-Si hypereutectic alloys processed via SIMA, enhancing understanding of microstructural evolution under strain-induced melt activation.
- Utilized advanced metallurgical techniques to analyze phase transformations and shape distributions in Al-Si alloys, contributing to improved material properties and processing methods.
- Applied statistical and computational tools to assess phase shape characteristics in SIMA-treated Al-Si alloys, optimizing alloy performance for industrial applications.

Injury Tracking System | Injurio · March 2024 - April 2024

- Developed a web application featuring a user-friendly body map interface for pinpointing injuries; streamlined the victim reporting process and decreased report completion **time by 40%.**
- Integrated **GraphQL queries** with Prisma as the ORM for database connectivity and efficient data management.
- Implemented data visualization using ChartJS to present analytics and metrics on an intuitive dashboard.
- **Exposure:** Next.js, GraphQL, Prisma, Ant design, Auth0.

Annual Sports Fest | Spardha'23 · Sep 2023 - Oct 2023

- Implemented a web-based registration system for diverse sports competitions, facilitating seamless contingent sign-ups, resulting in a **30% increase** in participant engagement and satisfaction.
- Implemented **Swagger** for API documentation and a dedicated admin panel to manage fixtures and results efficiently.
- Automated contingent registration forms, saving approximately **20 hours** of manual data entry per event cycle.
- **Exposure:** Django, React, PostgreSQL

POSITION OF RESPONSIBILITY

Tech Executive | E-Summit'23 · Dec 2022 - Feb 2023

- Developed responsive UI components using React.js, Tailwind CSS, and JavaScript, enhancing user experience.
- Implemented and optimized React components for data fetching from Firebase, improving performance and SEO.

Coordinator | Gram Mela'23 · Jan 2023 - Feb 2023

- Successfully organized Gram Mela'23 with SSC in Tikri village, Varanasi, with the participation of over **500+ people**.
- Conducted problem-solving surveys and organized various stalls to educate students and their parents.

HONOURS AND ACHIEVEMENTS

- Secured an official **rank of 1365** globally in the Educational Codeforces Round 164 (Div-2) contest.
- Secured **2nd position** in group song competition at Aagman'21, Indian Music Club.

EXTRA-CURRICULAR ACTIVITIES

- Engaged in a two-day research program by the Mechanical Engineering Department at IIT Bombay, enhancing my knowledge of advanced technologies and networking with experts.
- Successfully organized **EV Conclave'22** in New Delhi, with the participation of **60+ startups** from the EV sector.

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