

Anuj Kumar Yadav

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EDUCATION

- **Netaji Subhas University of Technology** Delhi, India
B.Tech in Instrumentation and Control Engineering. CGPA: 8.82 August 2024 - May 2028
- **The Aditya Birla Public School** Renukoot, India
Class XII, CBSE. Percentage: 94.4% April 2023 - March 2024
- **The Aditya Birla Public School** Renukoot, India
Class X, CBSE. Percentage: 96.2% April 2021 - March 2022

EXPERIENCE

- **VAS Ventures Pvt. Ltd.** Remote
Software Development Engineer Internship June 2025 - Present
 - Developed a GUI-based utility using **Tkinter, PIL, and OpenCV**, designed for seamless integration into the company's flagship application, **Call-Astro**
 - Implemented features such as dynamic canvas rendering, custom drawing tools (freehand, text overlay), image filters, and capture-from-camera functionalities
 - Focused on performance optimization to ensure smooth integration within the main application.

PROJECTS

- **PathShala – Library Management System** [Source Code](#)
(Flask, Python, MySQL, HTML, CSS, JavaScript) April 2025 - May 2025
 - Built a **full-stack library management** web application to ease book borrowing and user registration
 - Implemented features like book availability tracking, due dates, and **penalty calculation** for overdues
 - Used **Flask routing** for handling user actions and navigation
- **WeatherNow – Real-time Weather Website | [Link](#)** [Source Code](#)
(HTML, CSS, JavaScript, Weather API) November 2024 - December 2024
 - Built a **responsive website** that displays real-time temperature, wind speed & humidity of searched city
 - Integrated external Weather API to fetch accurate **climate data dynamically** based on user input
 - Optimized for desktop and mobile viewing using responsive design principles
- **Password Generator | [Link](#)** [Source Code](#)
(React.js, Tailwind CSS, JavaScript) May 2025 - May 2025
 - Built a **fully responsive web app** to generate secure passwords based on user-defined criteria
 - Allows users to **customize password strength** with options for numbers, special characters & length
 - Implemented **dynamic password generation** logic with real-time updates based on user inputs
- **Electromyography-Gesture-Recognition** [Source Code](#)
(Python, Jupyter Notebook, Numpy, Pandas) April 2025 - May 2025
 - Built a preprocessing pipeline with 6 feature extractions and **PCA** for dimensionality reduction
 - Applied **ML** and **EMG** signal processing for prosthetics and rehabilitation use cases
 - Achieved 92.78% (KNN) & 60.33% (LogReg) accuracy results with scatter plots and confusion matrices
- **NewsMonkey – Real-time News Website** [Source Code](#)
(React.js, HTML, CSS, JavaScript, NewsAPI) January 2025 - February 2025
 - Built a responsive website using **React.js** to deliver real-time news by integrating with the NewsAPI.
 - Implemented features like category-wise news filtering, infinite scrolling and loading indicators.

ACHIEVEMENTS

- Cleared **National Defence Academy Written Examination (2023–24)** conducted by **UPSC**
- Qualified **JEE Mains 2024** with competitive rank conducted by **National Testing Agency (NTA)**
- Solved 250+ coding problems on platforms like **LeetCode**, **Codeforces**, and **Codechef**
- Participated in **Smart Delhi Ideathon 2025**, a state-level innovation aimed at solving real-world issues
- Participated in **Webathon–SpaceCon 2025**, NSUT's national-level web development hackathon
- Secured **rank 1st** in **International Olympiad of Mathematics** conducted by **SilverZone**(2023-24)
- Secured **rank 3rd** in **International Olympiad of Science** conducted by **SilverZone** (2023-24)

SKILLS

- **Programming Languages:** C, C++, Python, JavaScript, SQL
- **Tools/Frameworks:** Node.js, React.js, Flask, MySQL, Tkinter, MongoDB, GitHub
- **Core Courses:** DSA, DBMS, Data Visualization, Electronic Devices and Circuits, Circuit Analysis, OOPS

EXTRA-CURRICULAR ACTIVITIES

- Represented School **Football Team** at the **CBSE** State-Level Cluster Tournament
- Won the **Intra-Hostel Table Tennis Tournament** conducted by Hostel Committee
- Achieved **CDT Rank in Unit 101 UP BN NCC**, Mirzapur
- Volunteered in **Moksha 2025** (NSUT's Annual Cultural Fest) as part of the **Logistics Team**