

DEWANSH YADAV

+91-8585993051 || dewanshyadavofficial@gmail.com || [Portfolio](#) || [LinkedIn](#) || [Github](#)

EDUCATION

B.Tech (Electrical Eng.)	May 2025	Netaji Subhas University of Technology	8 CGPA
CBSE (Class XII)	May 2021	Kendriya Vidyalaya Tughlakabad, New Delhi	90.16%
CBSE (Class X)	May 2019	Kendriya Vidyalaya Tughlakabad, New Delhi	90.0%

WORK EXPERIENCE

Defense Research and Development Organization, R&D Intern

May 2024 - Jul 2024

- **Advanced RDH Techniques:** Developed and tested PVO-based RDH schemes, achieving a 20% increase in data embedding capacity while maintaining high image fidelity using Python, NumPy, and PIL.
- **Comparative Analysis & RDH Challenges:** Evaluated 10 PVO-based RDH schemes, improving marked image quality by 15% and reducing embedding distortion by 25% through optimized algorithms for medical and military applications.

PROJECTS

NSUT-Study EdTech space, Back-end Development, [\(link\)](#)

Sep 2023 - Dec 2024

- Created a 100% learner friendly **web platform** for educational Institution.
- Implemented **RESTful APIs** and integrated multiple services such as **MongoDB**, **Cloudinary**, and **Razorpay** to manage user authentication, course management, file uploads, and payment processing, enhancing operational efficiency by 15%.
- Ensured secure data handling and efficient server communication through **Express.js** middleware, resulting in a seamless user experience and reduced server response times by 20%.

Personal Portfolio Website, Front-end Development, [\(link\)](#)

Feb 2023 - Mar 2023

- Implemented personal portfolio website using **HTML5**, **CSS3**, and **JavaScript** of the **web page**.
- Maintained a **high uptime rate of 99%** while seamlessly integrating multimedia elements.
- Integrated 10 **button-accessed features** to optimize the browsing experience across different devices.

ANPD Parking Management System, Computer vision, [\(link\)](#)

Jan 2023 - Feb 2023

- **OpenCV**, **Easy-OCR** is used for **optical character recognition** from **real-time pictures** with 95% precision.
- Developed an **Automatic number plate detection** using **machine learning technology**, reducing human intervention by **90%**.
- Achieved a significant improvement in **accuracy and security**, with a **100%** enhancement, and employed **MYSQL** for 1 **back-end Database** to manage data input, output and searching.

Weather App, [\(link\)](#)

Dec 2022 - Jan 2023

- Built a weather app fetching real-time data for over **1000+ cities** using **API**.
- Improved user by engagement by 30% with **geolocation-based** weather updates and a responsive UI.
- Optimized loading time by 50% with efficient API calls and **caching** location data.

TECHNICAL SKILLS

- Core Programming Languages: **Java** | **Python** | **SQL** | **C++** | **JavaScript**
- CS Subjects: **Data Structures & Algorithms** | **OOPs** | **DBMS** | **Operating System** | **System Design**
- Development Skills: **Node.js** | **Express.js** | **MongoDB** | **React.js** | **Tailwind CSS** | **HTML** | **CSS**

ACHIEVEMENTS AND AWARDS

- Secured **1100+** contest ratings on **Codeforces** platform for competitive programming.
- **Cleared for the SSB** Interview after clearing the **NDA-146** written exam in 2022.
- Ranked among the **top 10** teams in **NSUTTHON'21** by Crosslinks, NSUT.
- Soft Skills: **Problem-solving**, communication, **cricket**, active listening.

POSITION OF RESPONSIBILITY

Senior Consultant, 180-DC NSUT

- **Collaborated with 4 startups**, including **BikeWo** and **Wastelink**, facilitated expansion and scalability.
- **Co-ordinated Biz-Wiz 180 competition** for freshers, and onboarded **15 teams**.

Volunteer, National Service Scheme NSUT