

Hemant Singh Meena

Final Year Undergraduate

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ACADEMIC QUALIFICATIONS

Year	Degree/Certificate	Institute	CPI/CGPA/%
2020 - Present	B.Tech, Civil Engineering	Indian Institute of Technology, Kanpur	7.1/10
2020	CBSE Sr. Secondary (XII)	Kendriya Vidyalaya No.3, jaipur	81.2%
2018	CBSE Secondary (X)	Kendriya Vidyalaya No.3, jaipur	88%

KEY PROJECTS

Dynamic Video Hub: MUI Design, YT API Integration | *Self-Project* 🌐 (May'23-July'23)

- Immerse in captivating UI designs created through React's dynamic capabilities and Material-inspired aesthetics.
- Effortlessly fetch content with **Axios**, integrating **YouTube API via RapidAPI** for smooth and seamless content discovery.
- Achieved Uninterrupted and sleek video playback with "**react-player**" and user-friendly navigation via "**react-router-dom**".
- Simplify development using "**react-scripts**" for a Slick and harmonious video exploration experience with modern features.

Dynamic Web Portfolio | *Self-Project* 🌐 (May'23-July'23)

- Crafted dynamic web portfolio with **HTML5, CSS3, and JavaScript**, utilizing **Bootstrap and Font Awesome** icons.
- Implemented captivating interactive elements and engaging background animation, enhancing the modern user experience.
- Integrated dynamic contact form with input validation and **FormSubmit** integration, facilitating real-time email communication.

Laptop Price Predictor | *Self-Project* 🌐 (Aug'23)

- Utilized ML techniques, **Gradient Boosting** and **Random Forest**, for laptop price prediction with **R2(0.88)** and **MAE(0.16)**.
- Leveraged user-provided specifications to accurately estimate laptop prices using a robust model built with **Scikit-Learn**.
- Demonstrated strong model performance, showcasing a high degree of price prediction accuracy and predictive power.

Fake news classifier using NLP | *Self-Project* 🌐 (May'23-July'23)

- Used **Natural Language Processing (NLP)** for pre-processing and harnessed **Regular Expressions** for classifying the news.
- Implemented a **Decision Tree Classifier**, utilizing **TF-IDF** for textual features, and achieved an impressive **88% accuracy**.
- Deployed an **NLP model**, saved the **TF-IDF Vectorizer**, and trained the model using **Pickle** for news reliability prediction.

DeCAPTCHA | *Course Project, Introduction to Machine Learning (CS771)* 🌐 (May'23-July'23)

Mentor : Prof. Purushottam Kar, Dept. of Computer Science & Engineering, IIT Kanpur

- Devised and optimized algorithm to accurately identify the parity of hexadecimal numbers extracted from image inputs effectively.
- Utilized libraries like **OpenCV, NumPy, and Pickle** for efficient **image preprocessing and feature extraction tasks**.
- Developed custom **Support Vector Machine(SVM)** model from scratch for odd/even classification, evaluated model fitness.

Connecting the First Search | *Self-Project* 🌐 (Aug'23)

- Enhanced understanding of **Graph Theory** concepts and diverse **graph algorithms** for comprehensive analysis..
- Explored topics such as **Strongly Connected Components, Topological Sort, Bridges, and graph traversal**.
- Successfully implemented **DSU and BIT data structures** for efficient algorithmic solutions.

POSITIONS OF RESPONSIBILITY

Organizer, Events in UDGHOSH'22 Team |Sports Festival IIT Kanpur (July'2022 - Nov'2022)

Leadership	<ul style="list-style-type: none">Led a 2-tier team of 80+ students responsible for organizing formal and informal events during the festContacted more than 150 referees for 15 different sports from Uttar Pradesh sports organisation
Initiatives	<ul style="list-style-type: none">Initiated Udaan, a social initiative for specially-abled students with the help of the CDAP communityOrganized UNOSQ, Poker, Chess, and E-sports events across the country with 5000+ participantsProjected to organize the Road trips in 10+ cities across India to increase the reach of the festival
Impact	<ul style="list-style-type: none">Successfully hosted the indigenous sport Cricket for 3 days, with the participation of 30+ institutionsIncreased the digital reach of the festival by 30%, through our best sports events and pre-fest competitions

TECHNICAL SKILLS

- Programming Languages:** C/C++, Python, SQL, HTML5, CSS, JavaScript, L^AT_EX
- Tools and Utilities:** Git/ GitHub, AutoCAD, Fusion 360, MongoDB, VS Code, Postman, Jupyter Notebook
- Libraries and Frameworks:** ExpressJS, ReactJS, NodeJS, Bootstrap, NumPy, Pandas, Matplotlib, Seaborn, ScikitLearn
- Miscellaneous:** MS Excel, MS Word, MS PowerPoint, Micro-Cap, Canva

RELEVANT COURSES

(*Online Courses)

Applied Probability and Statistics	Fundamentals of Computing (in C)	Data Structures & Algorithms*
Full Stack Web Development*	Introduction To Machine Learning	Introduction to Electronics
Linear algebra and Differential Equations	Engineering Graphics	Applied Numerical Methods (using Python)

EXTRA-CURRICULAR ACTIVITIES

- Participated in IITB's All India Chess League (**AICL 5.0**).
- Took part in the **Survey Camp**, leading a 5-member team in creating a detailed topographic map of **Arogyadham Chitrakoot**.
- Conducted over **500** personalized mentoring sessions for students preparing for JEE Advanced examinations in **FILO** app
- Participated in an engaging E-sports inter college **pool** tournament hosted by the **E-sports Club** at IIT Kanpur.