HARDIK KUMAR SINGH

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EDUCATION

Motilal Nehru National Institute of Technology Allahabad **CPI: 8.21**(Till 7th sem)
B.Tech in Computer Science and Engineering *Dec 2021 - May 2025*

G.N. National Public School Percentage: 95.4
Central Board of Secondary Education (XII) *Apr 2021*

Little Flower School Percentage: 96.4
Indian Certificate of Secondary Education (X) *Apr 2019*

PROJECTS

OptiVision | *TensorFlow, OpenCV, Jetson Nano, Python* 🔗 Jan 2024
- Developed real-time object detection with TensorFlow's Centernet ResNet 101 model, achieving **32.4 mAP** and **34ms inference time**.
- Integrated **RTSP stream processing** for live video feeds and **multi-object tracking**.
- Generated **log files** with detection data (object count, timestamps) for analysis.
- Built a **chatbot** using detection logs and **TF-IDF with cosine similarity** for user queries.

MonageX | *MongoDB, ExpressJS, ReactJS, NodeJS, Material-UI* 🔗 Nov 2023
- Implemented secure **JWT-based** authentication with **login**/**logout** for enhanced security.
- Enabled real-time expense tracking and categorization, improving accuracy and reducing manual errors by **20%**.
- Integrated group collaboration features: **friend requests, group creation, and expense splitting**.
- Developed a responsive, Material-UI-based front end, ensuring **seamless user experience across devices**.

NewsX | *ReactJS, HTML, CSS* 🔗 Mar 2023
- Designed a news app with a **dark**/**light mode** toggle for **personalized user experience**.
- Implemented **infinite scrolling** for seamless navigation across categories.
- Improved usability with a **loading spinner**, reducing perceived wait time by **30%** and boosting user satisfaction.
- Organized news into sections: **Home, Business, Sports, Entertainment, Health, Science, Technology** for easy access.

TECHNICAL SKILLS AND INTERESTS

Languages: C++, Java(OOPs), SQL
Libraries: ReactJS
Databases: MongoDB
Developer Tools: VS Code, GitHub
Coursework: Data Structures, Algorithms, Operating Systems, Database Management System
Areas of Interest: Object-Oriented Programming

CODING PROFILES

Leetcode 🔗   **GFG** 🔗   **Codeforces** 🔗

CERTIFICATIONS

- Cisco Networking Basics 🔗
- Linkedin Learning SQL Programming 🔗
- Linkedin Learning NoSQL Essential Training 🔗

ACHIEVEMENTS

- Were among the **Top 5** teams in **Webster** competition at **Avishkar**, **MNNIT Allahabad** Nov 2023
- Secured **31st** rank out of **100** teams in **CodeStart 6.0** (Team), **MNNIT Allahabad** Mar 2023
- Secured **114th** rank in **Code Venture** at **Pragyaan**, **NIT Trichy** Mar 2023
- Secured **48th** rank out of **200** participants in **OPC-2023 1.0**, **MNNIT Allahabad** Feb 2023
- Were among the **Top 7** teams in **Code Battle** competition at **Kshitij**, **IIT Kharagpur** 🔗 Mar 2022