DHARMENDRA KUMAR YADAV

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EDUCATION

National Institute of Technology Kurukshetra   Kurukshetra, Haryana
Bachelor of Technology in Information Technology (CGPA: 7.95)   *Dec 2021 – May 2025*

BSEB Board   Gopalganj, Bihar
12th Grade with a focus on Mathematics (Percentage: 73.60%)   *Apr 2017 – Feb 2019*

EXPERIENCE

Department of Computer Engineering   Jan 2024 – May 2024
AI Music Generation ⃝ *GitHub*   *National Institute of Technology Kurukshetra*
- Engineered 4 advanced deep learning models, including LSTM, Bidirectional LSTM, and GRU, to generate high-quality piano compositions, enhancing creative efficiency.
- Achieved 95% accuracy in replicating complex musical patterns through model fine-tuning.
- Employed MIDI data and doubled the training dataset using data augmentation techniques, resulting in a 10% increase in model accuracy and improved output diversity.

PROJECTS

Hospital Management System | *MERN Stack* ⃝ *Github*   Mar 2024 – Present
- Developed a fully authenticated and responsive full-stack web application using Node.js and Express.js for the backend, delivering a robust REST API, while implementing React for an interactive frontend experience.
- Crafted two distinct frontends for users and admins, ensuring tailored interfaces for each role.
- Established login systems for admins and patients, facilitating efficient management of appointments and communications.
- Enabled admins to manage appointment statuses (accept, reject, pending) seamlessly.

Book Store | *MERN Stack, Tailwind CSS* ⃝ *Github*   Dec 2023 – Jan 2024
- Constructed a responsive Book Store application using the MERN stack and Tailwind CSS.
- Implemented user authentication, allowing access to exclusive sections and managing user login status.
- Integrated dark and light mode options across the application, enhancing user satisfaction by creating a more comfortable viewing experience.

Personal Portfolio | *React, Tailwind CSS* ⃝ *GitHub   Live Project*   Jun 2023 – Jul 2023
- Designed and launched a fully responsive and animated portfolio website using React and Tailwind CSS.
- Showcased 5+ projects and skills with smooth transitions and interactive elements to enhance user experience.
- Included a direct link to the resume to enhance engagement with potential employers.

ACHIEVEMENTS / HOBBIES

- Resolved over 1,200 DSA questions across platforms, including GFG and Leetcode.
- Achieved 3rd place in the GFG Institute Ranking, showcasing advanced algorithmic abilities and technical proficiency.
- Secured a top 12,463 rank out of over 10 lakh candidates in JEE Main, one of India's most competitive engineering entrance exams.

TECHNICAL SKILLS

Languages: C/C++, Java, Python, JavaScript, SQL, HTML/CSS
Frameworks & Libraries: React, Node.js, Express.js
Developer Tools: Git, VS Code, Visual Studio, PyCharm, IntelliJ, Jupyter Notebook, Postman
Database: DBMS, MongoDB
Operating Systems: Windows, Linux
Other Skills: Data Structures & Algorithms (DSA), Object-Oriented Programming (OOPs), AI, ML, Deep Learning