Priyanshu Jha | Male | 21

Education

Qualification	Board/ University	CGPA/ %	Year
B Tech, ECE(IoT)	Netaji Subhas University of Technology, Delhi (Formerly NSIT)	8.52/10	2026
Class XII	CBSE	71.4%	2021
Class X	CBSE	8.78/10	2019

Activities

Member, Devcomm, NSUT	• **Collaborated** with a team of **10 members** to drive updates for the NSUTX application • **Facilitated** the organization of a hackathon during DevComm's flagship event, **Avinya**	Dec'2022 - Present

Projects

Social Media Web App (GitHub Repository)	• **Architected** a dynamic social media platform using the cutting-edge **MERN stack**. • **Leveraged** MongoDB, Express.js, React, and Node.js to build a scalable full-stack solution.
IoT-Enabled Smart Inventory Management System (GitHub Repository)	• Developed an IoT-based inventory management system using ESP32, load cell, and temperature/humidity sensors to monitor product weight and storage conditions. • **Engineered** a full-stack web application with **React, Node.js, and Express**, incorporating secure **JWT authentication**. • **Leveraged MongoDB** to efficiently store and manage real-time inventory and sensor data. • **Integrated Socket.IO** for immediate alerts to notify managers when stock levels dropped below the predefined threshold.
Workout Web App (GitHub Repository)	• **Engineered** a full-stack workout management web application using the **MERN stack**. • **Integrated** robust user authentication and secure session management with **JSON Web Tokens(JWT).** • **Designed RESTful APIs for CRUD** operations to support workout plans and progress tracking. • **Optimized** MongoDB queries to deliver personalized recommendations efficiently.

Courses

Full-stack Web Development Bootcamp Certificate	• **Developed** responsive web applications using **HTML5, CSS3, JavaScript,** and frameworks. • **Engineered** scalable back-end solutions leveraging **Node.js and Express**.
Summer Analytics 2024, IIT Guwahati Certificate	• **Competed** in GeeksforGeeks hackathon at IIT Guwahati, showcasing innovative problem-solving skills. • **Executed** data pre-processing and applied logistic regression to predict likelihood of individuals receiving flu shots.
Machine Learning A-Z: AI, Python & R, Udemy Certificate	• **Acquired** data pre-processing skills via projects, employing regression and classification models. • **Explored** deep learning techniques, broadening grasp of advanced ML concepts.

Publications

NSUT

Decomposition Methods based Holistic Approach with LSIM Network on Pollution, Springer	• **Applied** EMD and EEMD methods to effectively decompose Time Series data, enabling clearer trend and noise analysis • **Predicted** PM 2.5 levels using LSTM models on decomposed data, delivering accurate insights into air quality trends • **Result:** The LSTM-EEMD model provided the most accurate PM 2.5 level predictions	Mar'2024 – Jul'2024

Additional Information

• **Mastered** over **400 Leetcode problems**, demonstrating strong problem-solving skills across various domains - Leetcode

• **Tackled 90+ GeeksforGeeks problems**, reinforcing algorithmic proficiency and honing technical acumen – GeeksforGeeks

• **Achieved** a **1000+ rating on Codeforces**, showcasing competitive programming skills – Codeforces

Skills

• Programming Languages (C++, C, JavaScript, HTML, CSS, Python)
• Web Development (React.js, Node.js, Express.js, Rest API)
• Databases (MongoDB, MySQL)
• Data Structures and Algorithms
• Machine Learning and Deep Learning

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