

# Nishant Bansal

nishant.bansal.mec21@iitbhu.ac.in | +91 8591010662  
LinkedIn | GitHub

## EDUCATION

### IIT(BHU), VARANASI

Bachelor of Technology in Mechanical Engineering

Dec 2021 - Present

CGPA: 9.14 / 10.0

### SUMPS SCHOOL, NABHA

(CBSE) Class XII

April 2020 - March 2021

PERCENTAGE: 88.4%

### IBS SCHOOL, NABHA

(CBSE) Class X

April 2018 - March 2019

PERCENTAGE: 91.6%

## LINKS

GitHub: NishantBansal2003

Codeforces: power\_verse

CodeChef: nishant\_640

LeetCode: nishant\_bansal\_2003

GeeksForGeeks: nishant\_bansal

LinkedIn: NishantBansal

Twitter: Nishant282003

## SKILLS

### LANGUAGES

- Experienced: C/C++, HTML, CSS, Javascript
- Familiar: Python, Numpy, Panda, Matplotlib

### TECHNOLOGIES

- Experienced: NodeJS, ExpressJS, ReactJS, MongoDB, Bootstrap, Git/Github, Scikit-learn
- Familiar: TailwindCSS, ThreeJS

### AREAS OF INTEREST

- Data Structures and Algorithms
- Full Stack Web Development
- Competitive Programming
- Machine Learning
- Data Science

### CORE SUBJECTS

- Object Oriented Programming
- Operating System
- Data Base management system(DBMS)
- Computer Networks
- SQL

## PROJECTS

### BROKERAX | [CODE LINK](#)

TECH STACK: REACTJS, NODEJS, EXPRESSJS, MONGODB, BOOTSTRAP

A financial Brokerage Website

- Developed user-friendly trading platform using **ReactJS** and **Bootstrap** for seamless user experience.
- Implemented secure **login** system with **Node.js** and **Express.js** for efficient authentication in **Backend**.
- Integrated **RESTful APIs** for real-time stock information retrieval.
- Designed seamless functionalities for **buying** and **selling** stocks.
- Utilized **MongoDB** to securely **store** and **manage** trading/user data.

### NEXTTALK | [CODE LINK](#)

TECH STACK: REACTJS, NODEJS, EXPRESSJS, MONGODB, TAILWINDCSS

A Real Time Chat Application

- Developed a captivating real-time chat application with a **responsive** design.
- Implemented seamless messaging and user-friendly features such as **real-time** conversations and effortless **file sharing**.
- Utilized **WebSockets**, Node.js, Express.js, and MongoDB to ensure **secure** login/signup functionality with password **encryption**.
- Utilized technologies for real-time communication, message storage, and **dynamic** online user status indicators.

### CO2 EMISSION PREDICTION

TECH STACK: PYTHON, NUMPY, PANDA, MATPLOTLIB, SCIKIT-LEARN

A Machine Learning Model

- Utilized machine learning algorithms (**linear regression**, **random forest**, **KNN regressor**, **XGBoost**) to create accurate CO2 emission prediction models.
- Explored the **dynamic** relationship between vehicle travel behavior and CO2 emissions for assessing and predicting environmental impact.
- Leveraged a diverse **dataset** with essential vehicle attributes (**engine size**, **cylinders**, **fuel type**, **fuel consumption**, etc.).
- Conducted comprehensive **data preprocessing**, including handling missing values, encoding categorical variables, and **normalizing** numerical features.

## ACHIEVEMENTS

1404(Specialist)

1759(3 star)

AIR 3462

AIR 6455

Global Rank: 278

Ranked **top 20**

Codeforces Highest Rating

Codechef Highest Rating

JEE MAINS 2021 among **1 million** candidates

JEE ADVANCED 2021 among **2 lakh** candidates

Starters 80 Division 2

in CodeKaze 2023 college rankings by Coding Ninjas.

## EXTRA CURRICULAR ACTIVITIES

1. **Participated** in Devbits (2023), a **hackathon** organized by EES IIT(BHU).  
[Certificate](#)
2. Developed a **Portfolio** website to showcase my projects.
3. **Participated** in GFG X Google Hackathon.
4. Solved **1000+** problems on coding platforms like **Codeforces**, **Codechef**, **LeetCode**, **GeeksForGeeks**, etc.
5. **Gold Medalist** in District Badminton Tournament.