NIKITA BANSAL

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Education

Jaypee Institute of Information Technology   Sep. 2021 – May 2025
Bachelor of Technology in Computer Science   *Noida, Uttar Pradesh*

Shri Gulab Rai Senior Sec. Montessori School   2018 – 2020
Intermediate Education   *Bareilly, Uttar Pradesh*

Technical Skills

Languages: HTML, CSS, JavaScript, PHP, SQL, MongoDB, OOP, C++, Python
Developer Tools: VS Code, Google Cloud Platform, Adobe Photoshop, Canva
Interpersonal: Communication, Teamwork, Leadership
Technologies/Frameworks: Linux, GitHub, Pytorch, TensorFlow, Ganache

Relevant Coursework

- Database Management
- Web Development
- Data Structures
- Operating System
- Computer Networks
- Machine Learning
- Big Data

Projects

College Buddy | *HTML, CSS, Javascript, PHP, Xampp*   **Project Link**

- Integrated functionalities for students, staff and admin on a single platform.
- Students can view their attendance, marks and update their profile.
- Staff can mark attendance and upload marks of students.
- Grades are generated automatically according to the marks.
- Admins can upload announcements on student's and staff's portal accordingly.

Sugarcane yield prediction model | *Python, GEE API, ML, HTML, CSS, Flask*   **Project Link**

- This project leverages various ML algorithms using satellite data to predict the sugarcane yield of a specific area of interest.
- Used MLR algorithm that improved the accuracy of the model to 98.
- Explored satellite images to collect various features about the area in which sugarcane yield was predicted, like NDVI and meteorological parameters.
- Model was deployed using Flask.

Organ donation and transplantation dApp | *Blockchain, MongoDB, Solidity, Ethereum, HTML, CSS, JS*

- The project works on public Ethereum blockchain that gives a decentralized, transparent and secure system for organ and tissue transplantation.
- Used SHA-256 algorithm for hashing data in blocks which improved accuracy to 97.
- Improved security and immutability between donor and recipient through Smart Contracts.
- Integrated with hospitals to ensure secure organ donation and transplantation.

Leadership / Extracurricular

IEEE Student Branch JIIT, Noida   May 2023 – Present
Strategic Head

- Mentored 100 students and gave different strategies for full proof event planning.
- Interviewed juniors to recruit them as IEEE volunteers.
- Organizer of a cross – campus startup based event which was organized in the annual technical event conducted by IEEE.
- Did Public Relations work and converted a monetary sponsor.