





NIKITA BANSAL

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Education

Jaypee Institute of Information Technology

Bachelor of Technology in Computer Science

Sep. 2021 – May 2025

Noida, Uttar Pradesh

Shri Gulab Rai Senior Sec. Montessori School

Intermediate Education

2018 – 2020

Bareilly, Uttar Pradesh

Relevant Coursework

- Data Structures
- Operating System
- Computer Networks
- Database Management
- Machine Learning
- Big Data
- Computer Organization and Architecture

Projects

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

- 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.
- Improved trust among stakeholders by securing their data through blockchain.

Sugarcane yield prediction model | *Python, GEE API, ML, HTML, CSS, Flask, NDVI data* **November 2023**

- 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.

Virtual AI Assistant | *Python, Tkinter, Pyttsx3 speech recognition* **July 2023**

- It is a GUI based python project, can send messages on whatsapp, shut down and restart system, google search, show weather of any city, play music on youtube, open any application and can interact with user both verbally and in written.

Restaurant Management System | *C++, Data Structures and Algorithms, OOPS* **April 2023**

- It efficiently serves walk-in, home delivery, and dine-in customers.
- Used dijkstra algorithm to find the shortest possible distance from the restaurant to each delivery location which helped in reduced time complexity.
- Used queue data structure for placing orders and serving Dine-In Customers i.e. the customers are served on first cum first serve basis which ensures fairness.
- Used priority queue for placing orders and serving Walk-In Customers i.e. they are served on their basis of age, older person is served first.

Technical Skills

Languages: Python, Java, C, HTML/CSS, JavaScript, SQL, object-oriented programming, MongoDB

Developer Tools: VS Code, Google Cloud Platform, Adobe Photoshop, Canva

Technologies/Frameworks: Linux, GitHub

Leadership / Extracurricular

IEEE Student Branch IIIT, 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.