Ayushmaan

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Linkedin | Github

EDUCATION

NATIONAL INSTITUTE OF TECHNOLOGY PATNA   2026
Bachelor of Technology in Computer Science - 7.67 CGPA   *2022 - 2026*
Bihar Public School   90.4%
CBSE Board, Class 12th, Buxar, Bihar   *2022*
Jean Paul's High School   91.4%
CBSE Board, Class 10th, Arrah, Bihar   *2020*

TECHNICAL SKILLS

Languages: Python, C/C++, JavaScript, HTML/CSS
Developer Tools: Git, GitHub, VS Code
Coursework: Object Oriented Programming, Database Management System, Operating System, Computer Networks, Data Structures, Web Technology, Algorithms
Frameworks: Next.js , Tailwind CSS , Node.js
Libraries: React.js, pandas, NumPy, Matplotlib, tkinter
Database: MongoDB, MySQL

PROJECTS

ChatApp | *ReactJS, Node.js, Express.js, MongoDB, Socket.IO, JWT, Tailwind CSS*   **Project Link**
- Designed and secured **RESTful APIs** with Express.js, implemented **JWT**-based authentication, and used **bcrypt.js** for encrypted password storage to protect user sessions and **enhance backend security**.
- **Improved performance** by minimizing frontend API calls, lazy-loading chat history, and optimizing MongoDB queries using **proper indexing and schema design**; structured the project as a monorepo with isolated frontend and backend for maintainability.
- **Tackled real-time communication challenges** like message sync, duplicate delivery, and stale socket connections by **implementing room-based architecture**, socket cleanup logic, and retry mechanisms for failed emits.

SmartHarvest | *React.js,Tailwind CSS,i18next,Python,Flask,NumPy,Pandas,Firebase,TensorFlow*   **Project Link**
- **SmartHarvest** is an **AI-driven** agricultural management system that helps farmers optimize crop yield, reduce risks, and improve productivity by providing crop recommendations, yield predictions, and comprehensive crop insights.
- Analyzes soil characteristics, climate conditions, and historical data to generate precise recommendations, ensuring data-driven decision-making for farmers.
- Built with **React.js** and **Tailwind CSS** for a responsive frontend and **Flask** with **Python** for a scalable backend, ensuring seamless performance and accessibility.
- Integrates machine learning models (**NumPy, Pandas, Scikit-learn, TensorFlow, Kera**s) and **Firebase** for real-time data storage, enabling AI-powered insights for smarter farming decisions.

Coding Profiles

- Solved **2000+** across all the coding platforms, including Codechef, Leetcode, GFG, Codeforces
- Codechef Link | **3 Star : (Max. Rating 1644)**
- CodeForces Link | **Pupil : (Max. Rating 1251)**
- Leetcode Link | **(Max. Rating 1807)**

ACHIEVEMENTS

Byteverse Hackathon *Certificate Link* secured **3rd Position** in National Institute of Technology, Patna.
CodeChef Starter 138(`div3`) : Secured global rank **96** out of **26000+**
Leetcode Weekly contest 144 : Secured global rank **1069** out of **29000+**
CodeCraft Secured Rank **6/250+** participants in the CodeCraft 2024 Coding Contest on Codeforces platform
Secured **98.6** out of **1 million** participants in Joint Entrance Exam (JEE) Mains 2022.