



PRATIK KUMAR

Roll No.: B22ES025

Major in CSE

B.Tech Engineering Science

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EDUCATION

Degree/Certificate	Institute/Board	CGPA/Percentage	Year
Major in CSE	Indian Institute of Technology, Jodhpur	7.8	2022-2026
Senior Secondary	CBSE Board	72.6%	2021
Secondary	CBSE Board	90.4%	2019

EXPERIENCE

- **UbiSys Lab** Aug 2024 - Dec. 2024
Research Intern IIT Jodhpur
 - **Developed a Flutter-based sensor data visualization tool** – Implemented real-time plotting of accelerometer, gyroscope, and GPS data using **Syncfusion Flutter Charts** in a scrollable UI.
 - **Added interactive features for data analysis.** Enabled **full-screen viewing** of charts and **image export functionality** using **RepaintBoundary**, allowing users to save plots as PNG files.

PROJECTS

- **ToDo React App** Jan. 2025 - Feb. 2025
A responsive todo list app with real-time task management using React. Github
 - * **Tools and Technologies used:** React Context API, useReducer, React Hooks, Bootstrap, CSS Modules
 - * **Built a full-featured Todo App in React** with 5+ reusable components using functional architecture and Hooks (useState, useContext, useReducer), improving modularity and scalability.
 - * **Implemented centralized state management** via Context API and Reducer pattern to support real-time creation and deletion of todos, efficiently handling **100%** of item operations.
- **Myntra Clone** Mar. 2025 - Present
Fully responsive e-commerce website. Github
 - * **Tools & technologies used:** React.js, CSS, Redux, React Router, Fake Store API
 - * Achieved a seamless user experience with a dynamic **product listing and filtering system** using **Redux state management**, improving performance by **30%**.
 - * Improved performance and UX by implementing **lazy loading & conditional rendering** with **useEffect** and **optimized fetch calls using AbortController**, reducing unnecessary API requests by **up to 30%**.
- **Car Price Predictor** Dec. 2024 - Jan. 2025
Car Price Prediction using features like company name, model, and purchase year. Github
 - * **Tools & technologies used:** Python, Pandas, NumPy, Matplotlib, Seaborn
 - * Developed automated data cleaning pipelines that reduced manual processing time by **80 percent**.
 - * Refined the model using optimal **random_state** (655), boosting **R² score** from **0.76 to 0.92**. Saved the pipeline as a deployable Pickle file for future use.

KEY COURSES TAKEN

- Data Structure and Algorithms, DBMS, Machine Learning, Operating System, Computer Vision, Linear Algebra, Calculus, Computer Architecture, Computer Networks

TECHNICAL SKILLS

- **Programming:** JavaScript (ES6+), TypeScript, React.js, Node.js, Express.js, C/C++, Python, SQL
- **Tools & OS:** Git, Postman, Docker, VS Code, MongoDB Compass, Linux, Windows
- **Libraries/Frameworks:** MongoDB, Mongoose, Redux, Bootstrap, Tailwind CSS, Axios, JWT, REST APIs

POSITIONS OF RESPONSIBILITY

- **Head Event Management**, IGNUS, IIT Jodhpur Nov. 2024-Feb. 2025
- **Contingent Leader**, Department of CSE in Intellia, IIT Jodhpur Feb 2024 - May 2024
- **Support Team Member**, Placement and Training Cell, IIT Jodhpur Sept. 2023 - May 2024
- **Core Member**, Quant Club, IIT Jodhpur Present

ACHIEVEMENTS

- **Top 1 percent** JEE Advanced 2022
- **Winner** Coding Night, IITJ 2025
- **Best Case Study** Sandstone Summit 2024
- **90.4 percentile** JEE Mains 2021