Amit Kumar

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EDUCATION

National Institute of Technology Allahabad, Prayagraj **2021 – 2025**
B.Tech - Mechanical Engineering - ***CGPA - 7.81*** *Prayagraj, Uttar Pradesh*

AREA OF INTEREST / COURSEWORK

- Data Structure & Algorithms
- Software Development
- Robotics & Control systems
- Basic SQL
- Full stack Development

PROJECTS

Paste | ReactJS, Redux Toolkit, Tailwind CSS **March 2024**

- Built a React-based Paste App enabling users to create, edit, and manage notes or code snippets, with search and filter capabilities for efficient retrieval.
- Leveraged React.js, Redux Toolkit for state management, react-router-dom for navigation, and react-hot-toast for real-time notifications.
- Developed a responsive, modular UI with local storage support for offline access and interactive CRUD operations.
- Emphasized reusable components, robust error handling, and efficient use of hooks like useState and useEffect for maintainable and scalable architecture..

ShopKart | ReactJS, Context API, Bootstrap **May 2024 - Ongoing**

- Developed a full-stack e-commerce app using React.js, incorporating responsive design, user authentication, and dynamic content rendering for an optimized user experience.
- Implemented secure routing and access control with React Router and custom middleware, ensuring protected admin and user dashboards.
- Built an admin dashboard for managing products, categories, orders, and users, leveraging React and Node.js for dynamic updates and secure interactions.
- Optimized app performance with Context API for efficient state management in authentication, search, and cart functionalities.

Cosmo Logistics | Python, ROS2, Nav2, SLAM, Gazebo, Rviz **Aug 2023 - Feb 2024**

- Developed a logistics management system as part of the eYantra project using a UR5 Robotic Arm and a mobile Robot.
- UR5 Arm detects and localizes the boxes placed on racks, and picks and drops them avoiding collision.
- Ebot navigates autonomously using Lidar, SLAM and Nav2 integration to reach racks. Docks, picks and drops the rack before the arm.
- Achieved a significant improvement in delivery efficiency through optimized scheduling.

TECHNICAL SKILLS

Languages: C++, C, Python
Technologies/Frameworks: HTML5, CSS3, Javascript, ReactJs, NodeJS, MongoDB, ROS2(Robot operating system)
Developer Tools: VS Code, Git, Github, POSTMAN

CODING PLATFORMS

- Solved **230+** Problems on **Leetcode**.
- Solved **350+** Problems across **Codeforces** and **GeeksForGeeks**.

ACHIEVEMENTS

- Achieved a rank of **12** out of **345+** teams in E-Yantra robotics competition (e-YRC 2023) held by **IIT Bombay**.
- **Runner Up** in Guardian Drone competition held by Aero club MNNIT.