AAYUSH KUMAR SINGH

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Education

Jims Engineering Management Technical Campus	**July 2022 - Aug 2026**
B. Tech in Computer Science	
IIT Madras	**Sept 2022 - Aug 2026**
BS in Data Science & Programming	

Experience

Web Developer Intern | JNU + SAAARP Labs   **November 2024 – Present**
- Developed a scalable and dynamic web application using React.js, enhancing UI/UX by 25%, collaborating with UI/UX designers to ensure intuitive interfaces.
- Led weekly code reviews, reducing production bugs by 15%, and contributed to designing a scalable backend architecture, boosting deployment efficiency.

Projects

The Interactive Constellation Weaver (Constella)
- **Technologies**: MERN Stack | React.js, Node.js, Express.js, MongoDB, Canvas API, Tailwind CSS
- Developed a full-stack platform allowing users to draw custom constellations, assign symbolic meanings, and generate narrative stories.
- Engineered **RESTful APIs** with Express.js and MongoDB to store user-generated data securely and persistently.
- Utilized the Canvas API for interactive drawing functionality, enabling real-time constellation sketching and manipulation.
- Designed a responsive frontend with React and Tailwind CSS to ensure seamless UX across devices.

Fintrix - AI Powered Personal Finance & Investment Advisor
- **Technologies**: MERN Stack | React.js, Node.js, Express.js, MongoDB, Python (Flask), Tailwind CSS, GPT-2, LLaMA 3, scikit-learn, TensorFlow
- Built a smart personal finance dashboard enabling users to track income, categorize expenses, and visualize spending patterns with interactive charts and real-time data integration.
- Implemented AI-driven financial advice and investment tips using GPT-2 and LLaMA 3 via Flask APIs for personalized recommendations.
- Designed secure user authentication and MongoDB-based storage for financial data with intuitive React UI and responsive Tailwind styling.

UBER Clone   (in progress)
- **Technologies**: MERN Stack | React.js, Node.js, Express.js, MongoDB, Tailwind CSS, Axios, Socket.IO
- Engineered a full-stack ride-booking platform mimicking core Uber features, including pickup/drop inputs, vehicle selection, and ride confirmation flows.
- Designed a responsive frontend with React and Tailwind CSS, incorporating GSAP for smooth animated panels and transitions.

<u>**Personal Portfolio Website**</u>
- **Technologies:** React.js
- Designed and built a **responsive portfolio website** to showcase projects, skills, and achievements, featuring a clean UI, smooth user experience, and a dedicated projects section.

Skills

- **Languages & Technologies:** Java, C++, JavaScript, Python, SQL
- **Frameworks & Libraries:** React.js, React Native, Node.js, Express.js
- **Tools:** Git, GitHub, VS Code
- **Web & Database:** HTML, CSS, MongoDB

Certificates & Extra Curriculars

- **Hacktivate'23 – 36 Hour Hackathon**: Awarded Consolation Prize for developing the best healthcare-themed app.
- **Certification**- Introduction to Responsive AI, Introduction to Generative AI, Digital Transformation with Google Cloud.
- **President- FitFam Society:** Organized a Tug of War event with 20 teams and 120+ participants & led a team to manage event execution, participant engagement, and rule enforcement.