SHRIYANSH SINHA

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Portfolio-Website   **Github**   **Linkedin**

EDUCATION

Indian Institute of Technology, Patna   **Patna, India**
B.Tech - Civil Engineering(Major Degree), Computer Science Engineering(Minor Degree)   November 2021 - May 2025
GPA: **8.01** (till 6th sem)   (expected)

K.C.M School   **Moradabad, India**
Intermediate- CBSE - **91.6** percent   May 2020

PROFESSIONAL EXPERIENCE

SDE Internship , Inplayin | *Flutter, Dart, Android Studio, Firebase*   **May 2024 - July 2024**
Engineered a comprehensive property trading app to streamline buying, selling, and managing properties.

- Designed **40+ responsive interfaces** using Flutter's frontend framework.
- Connected to **RESTful APIs** and **Firebase Firestore** for **real-time data**.
- Engineered a secure login with **Firebase** Authentication.
- Implemented key features including an **adaptive property listing system**, an **advanced search functionality**, and a **transaction management module** integrated with **real-time notifications**.
- Conducted testing using the **JEST** Testing Library, Honed debugging skills using the web developer tools.

Machine Learning Internship, IIT Roorkee | *Data Analytics**, Python, Typescript, React*   **June 2023 - August 2023**
                                                                                                          Video Demo
A Python-based Machine Learning Movie Recommender System with **90%** accuracy and an intuitive Streamlit interface.
- Conducted extensive data pre-processing on **10,000 movie records**, reducing data noise by **20%** .
- Used Natural Language Modelling to analyze 10,000 movie reviews, improving recommendation accuracy by **25%** .
- Crafted an intuitive user interface with TypeScript and React.

PROJECTS

Decentralized-Voting-System | *Ethereum-Blockchain, Node.js, Metamask, Python, FastAPI, MySQL*   **July 2024**
- Implemented **JWT** for secure voter authentication and authorization.   **Video Demo**
- Utilized **Ethereum and Smart Contracts** for tamper-proof and transparent voting records.
- Eliminated the need for intermediaries, ensuring a trustless voting process.
- Devised an admin panel to manage candidates, set voting dates, and monitor results.
- Crafted an intuitive UI for voters to cast votes and view candidate information.

A Financial literacy Web App | *Typescript, MongoDB, Express.js, React.js, Bcrypt*, AWS   **March 2024**
- Created a One-Stop Financial Literacy Web App using TypeScript, MongoDB, and Express.   **Video Demo**
- Integrated a **Blogging Platform with community support** (Using Express.js and MongoDB)
- Introduced a **Quizzing Platform**, which offers **10+** topics of personal finance and money management.
- Incorporated a **Resource Library(**40 + articles**), Daily Streak Tracker**, as well as the Latest Finance New**s**.
- Ensured data security by implementing **JWT** for authentication and **Bcrypt** for password hashing, with data stored in a **NoSQL database**.
- Deployed on **AWS EC2** with a scalable architecture for optimal performance and flexibility.

Search Engine on Wikipedia Corpus | *Jupyter Notebook, Python, Shell*   **January 2024**
- Built a search engine using an **Inverted Index on a 72 GB** Wikipedia corpus.   **Github Link**
- Supported **field-specific queries** (e.g., `title:abc`, `body:aaa`).
- Displayed **top 10 relevant results** with a 1-2 second response time.
- Processed large amounts of data with **K-way merge sort** and built a secondary index to manage memory constraints.

ACHIEVEMENTS / LEADERSHIP

- *Specialist* on *Codeforces* with over **445+** questions on *Codeforces*.
- **3 Star** on *CodeChef* with max rating of *1725*.
- Solved over **560+** questions on *Leetcode* with a max rating of *1722*.
- **Cultural Secretary**, **Students' Body** IIT Patna - Led all (**50+**) socio-cultural events, represented students in administrative forums, and managed year-round activities at the institute level.
- **Web Development Team Lead** for Samnivesha(Technical Fest) at IIT Patna - Led a team of **8** members.

SKILLS

- **Languages:** C++, C#, Python, JavaScript, TypeScript, SQL, Dart
- **Front-end Development** : HTML, CSS, JavaScript, TypeScript, React.js, SASS/SCSS, Tailwind CSS, Redux/Context API, Next.js, Flutter.
- **Back-end development** : Node.js, Express, Docker, Kubernetes, JWT, AWS, FastAPI, .NET, Firebase.
- **Technologies : Skills** :, Git, API Testing, Databases (MySQL, PostGreSql, MongoDB),Unit Testing, Debugging, Azure Devops,Docker, Ethereum Blockchain, Microsoft Office - Excel, Powerpoint.
- **Relevant Courses** : Operating Systems, OOPS, Data Science, ML, System Design, DBMS, Data Structures and Algorithms(1300+ problems solved).
- **Soft Skills**: Agile Mindset, Tech-Agnostic, Adaptability, Ability to navigate through Unstructured Problems, Creative Thinking, Data-Driven Decision Making, Thrive in a Team Environment.