Shashank Sinha

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PROJECTS

Edtech App | *React JS, Node JS, MongoDB, Redux, API, Tailwind CSS*   *October* 2023 – *March* 2024
- Implemented an ed-tech platform, where users are categorized in different categories, and based on it they are granted controls over respective functionalities, handled by authentication & authorization middlewares.
- Implemented backend in MVC architecture, using Express JS framework & Mongoose library. Also implemented login, signup & reset password functionalities. For implementing payment functionalities, I used Razorpay API. And for storing media files, I used Cloudinary.
- For further improvements, Node JS does provide cross-platform compatibility, which I can use to integrate the backend with a cross-platform frontend, to improve user experience.
- Website , Github Link

Dictionary App | *React JS, Context API, Material UI, Tailwind CSS*   August 2023
- This app is a responsive website, which uses *Free-Dictionary-API*, to fetch a word's definition as per user query.
- Also implemented a Bookmark feature, using which user can bookmark some words, and they get stored in client's local storage. I also stored the definitions of bookmarked words in the client's local storage, which reduces unnecessary API calls and contributes to the app's performance.
- Website , Github Link

Weather App | *HTML, CSS, JavaScript*   *April* 2023
- A dynamic weather viewing responsive app that uses *OpenWeather-API* to fetch weather details as per user query.
- The user can enter the required query (city name) on the search bar present at Search Weather section or can view his/her current location's weather by giving location access in the Your Weather section (home page).
- Website , Github Link

Music Analysis in Python | *Machine Learning, Data Processing & Analysis*   *March* 2023 – *April* 2023
- Processed music files and audio data, & created an LSTM model, for predicting upcoming music elements.
- Reduced RMS error of 4.8030, to 3.2644 in 50 epochs. Doubling the epoch count, & adding some Dropout layers reduced it to 2.6238.
- Github Link

ACHIEVEMENTS

- Rated 2012, **Knight** (max. 2028) , Top 2.37 % on **LeetCode**.
- Rated 1432, *specialist* (max. 1453) on **Codeforces**.
- 5 Star on **HackerRank**. (C++, Java, JavaScript, SQL)

EDUCATION

National Institute of Technology, Patna   CGPA : 7.77
Integrated Master of Science, Physics   *August 2018 – June 2023*

Satyam International school, Patna   75.2 %
XII (CBSE)   *2017*

St. Joseph's High school, Patna   CGPA : 9.6
X (CBSE)   *2015*

TECHNICAL SKILLS

Languages: C++, Java, Python (basic), SQL
Web technologies: React JS, Node JS, MongoDB, JavaScript, Tailwind CSS, CSS, HTML
Python libraries: pandas, numpy, matplotlib, music21