Tarun Kataruka

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Education

Dayananda Sagar College Of Engineering **CGPA: 9.30**

Bachelor of Engineering-Computer Science And Engineering *2022 - 2026*

Technical Skills

Languages: Golang, C++, JavaScript, Python

Technologies/Frameworks: React, GraphQL, NextJs, NodeJS, ExpressJS

Databases/Tools: MongoDB, PostgreSQL, Git

Projects

SharkBucks | *TypeScript, JavaScript, Firebase, Tailwind, CSS* | GitHub | Deployment

- Sharkbucks is a cutting-edge auction platform designed to *unite investors and SMEs* seamlessly. For SMEs, Sharkbucks offers unparalleled access to competitive loan offers, facilitating easy access to much-needed funds.
- Investors can easily access pitches and resources to bid on loan tenures, interest amounts, and capital.
- The platform offers an **NLP Chatbot** feature for navigating government schemes and exploring investment opportunities.
- Our platform utilizes a finely-tuned **ML model** to match SMEs with investors whose preferences align, streamlining the investment process.

FindYourKick | *React, MongoDB, Tailwind, Node.js, Javascript* | GitHub | Deployment

- Spearheaded the development of a cutting-edge ecommerce website employing *Node.js* for backend services, *MongoDB* for data storage, with **React** and **REST APIs**.
- Utilised *Braintree and JWT* for **payment and authorization** and *Render.com and Vercel* ensuring seamless deployment, scalability, and reliability of the application.
- Implemented **Continuous Integration/Continuous Deployment** (CI/CD) pipelines to automate testing and deployment workflows using **Github Actions** and **YAML** configuration files.

Hostel Management System | *React, Tailwind, MongoDB, Node.js, Javascript* | GitHub |

- The project facilitates easy management of any*hostel* allowing students to*register complaints,apply for gate passes, view weekly menu and make payments*, making everyone to have a real time experinence.
- Developed with *React*, *JavaScript* and *Tailwind CSS*, the project incorporates attractive UI, seamless routing, strong typing, and improved code maintainability for an enhanced user experience.
- The project also have an *admin panel* allowing administrator to *view/resolve complaints,approve/reject gate passes, edit weekly menu, view students list, payment invoice and handle room allocation*, making management easy and efficient

GDP Calculator| *ReactJs, Javacript, Python, Numpy, Pandas, Folium* | GitHub |

- Orchestrated the fusion of *React.js*, *Pandas*, and *Python* to develop an innovative GDP Calculating webapp. Delivered a dynamic user experience while ensuring code integrity and scalability.
- Developed a sophisticated web application designed to provide real-time GDP data for any country and offer predictive analytics for future GDP trends. The application integrates with various financial data APIs to fetch live GDP statistics and uses advanced forecasting algorithms to project future economic performance. The intuitive user interface allows users to select a country and view current GDP figures, historical data, and predictive trends. By leveraging data visualization tools, the app presents complex economic information in an accessible and actionable format.
- Engineered a robust backend utilizing *Python*, *Pandas*, *NumPy*, *Neo4j*, and *spaCy*. Orchestrated **RESTful APIs**, proficient **CRUD operations**, and optimized data storage.

Achievements

- Placed 1st Place Among 617 other participants in Hackbanglore 2024 Hackathon - May 2024