GAGAN SL

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WORK EXPERIENCE

- **Machine Learning Research Intern** at **RAPID** based in **PES University**. *June 2024 – August 2024*
- **Blockchain Developer (Intern)** at **PrimeTradeAI.** *December 2024 – Present*.

EDUCATION

PES University *Bangalore, Karnataka*
Bachelor of Technology in **Computer Science and Engineering** *September 2022 – Present*
Received **Distinction Award** for **three** Semesters

TECHNICAL SKILLS

Programming Languages: Python, Java, C/C++, MySQL, HTML, CSS, JavaScript, MATLAB, R, GoLang, TypeScript

Expertise: Machine Learning, Data Structures and Algorithms, Cybersecurity, SQL Injection, Feature Engineering, Topic Modelling, Neural Networks, Computer Networking, Operating Systems, Data Analytics, Prompt Engineering, Web Development, Competitive Programming

Tools: Scikit-Learn, Tensorflow/Keras, MERN, Next.js, GENSIM, Nmap, Sanity, Streamlit, GIT, PyTorch, Pandas, NumPy, Neo4j, bycrypt, NLTK, Firebase, PayPal, Leaflet.js, TailwindCSS

PROJECT EXPERIENCE

E-Commerce Website | *Next.js, Sanity CMS, Stripe, getServerSideProps, getStaticPaths, getStaticProps*

- Developed a web application using **Next.js** as the backend endpoint and **Sanity CMS** for database management.
- Integrated **Stripe** to handle payments, products, shipping rates, and the entire checkout process.
- Implemented file-based routing for efficient route management and dynamic data fetching with **getServerSideProps**, **getStaticPaths**, and **getStaticProps** for server-side rendering and static generation.
- Designed for scalability with potential for additional payment gateways and multiple product pages.

Location Based Reminder | *HTML, CSS, JavaScript, Leaflet.js, jQuery, GoLang*

- Built a web application to trigger **location-based reminders**, allowing users to set reminders with title, description, and coordinates (**latitude** and **longitude**).
- Sent automated email reminders when users approached within 100 meters of a predefined location.
- Used **Leaflet.js** for mapping, **jQuery** for interactivity, **Go** for backend processing while **HTML** and **CSS** was used to render all these components onto one page.
- Planned future enhancements include integrating **Google APIs** for precise geolocation.

Stock Price Predictor | *Alpaca API, Yfinance, Feedforward Neural Network (FNN), Streamlit, GENSIM*

- Created datasets using **Alpaca API** for news data and **Yfinance** for historical stock data, and classified news articles into five topics using **GENSIM**.
- Trained a **Feedforward Neural Network (FNN)** to predict closing stock prices using a **7-day moving average** over two years, achieving **89.06%** accuracy.
- Deployed the model in a **Streamlit app**, generating 14+ day forecasts and predicting stock prices for any date.
- Converted the project into **a research paper** currently under publication, with plans for further optimization.

DriveIO - Car Rental Website | *Next.js, Node.js, MySQL, Firebase, PayPal, Express.js*

- Developed a **car rental platform** connecting car **owners** and **renters**, enabling seamless **vehicle listing** and **booking**.
- Implemented **dynamic car listings**, **multi-step workflows**, **personalized dashboards**, **rental history tracking**, and **light/dark mode** for accessibility.
- Features a secure admin dashboard for managing car listings, rental analytics, and total income tracking using SQL aggregation.