

PRATEEK SHARMA

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WORK EXPERIENCE

BHARATTECH TECH ECO-SYSTEM PVT LTD | Full Stack Developer

APRIL-2024 - PRESENT

- Enhanced responsiveness, upgraded and designed new modules using React, Material UI, Redux, and JavaScript. Implemented Rest Apis in Django REST to include features such as search capabilities and data filtering across several pages, with a best practice score of up to 76.
- Designed full-stack SaaS product using Next.js 14, TypeScript, and Tailwind CSS, led the team to facilitate the incorporation of new features and functionalities, and constructed a flask server with MongoDB database for backend functionality like authentication, email notifications, video, and screen captures functionalities.
- Optimized the website through conditional rendering, lazy loading, and image optimization to improve the Lighthouse score by up to 60% and the SEO score by up to 90%.
- Integrated web sockets, with Redis and RabbitMQ in Django REST to make a notification system to ensure real-time communication between all four dashboards, and utilized Docker to containerize both frontend and backend applications.
- Revamped four new dashboards with React, Redux, and Material UI and developed the Django REST API along with MySQL database and Redis to have features for the microservice and real-time messaging using web sockets, authentication for enhancing security using JWT, and done API integration for seamless flow of data between the backend and frontend.

PROJECTS

NEWS APP | [Link](#) | [GitHub](#) | MERN STACK, Socket.io, Passport.js, Google OAuth 2.0, Redux, Tailwind CSS, Google news Scraper, Cheerio

- Created a user-friendly, feature-rich news app that uses web scraping to showcase news and Google News Scraper to retrieve up to 2000+ items for over 15+ categories.
- Incorporated features like pagination, searching over 2000+ articles, user authentication through Google Auth 2.0, adding bookmarks, and dark theme mode.
- Integrated an auto-update of all news after every 12 hours and the latest news after 2 hours.

STOCK SENTRY | [GitHub](#) | MERN STACK, Cheerio, Redux, Tailwind CSS, Neural Network, Flask

- Developed a stock market dashboard displaying historical opening price graphs over a vast time range of more than 10 years, giving stock details, and displaying top losers and gainers.
- Built an LSTM model achieving 94% accuracy in predicting future stock prices on the Flask API and enabled dark mode.
- Build user authentication and offer features like creating a watchlist, searching stocks, and predicting the price of stocks in the next 10 days.

PHOTO GALLERY | [GitHub](#) | React.JS, MySQL, Django Rest, Material UI

- Created a feature-rich responsive photo gallery with features such as uploading photos, category creation, and descriptions (up to 500 words).
- Implemented theme customization and sorting of photos into two categories (name and time of upload).
- Strengthened the application with crud operations on photos (editing, updating, deleting) and added two more advanced features like category-based deletion and filtering.

ADDITIONAL

- Languages:** C++, Python, JavaScript, TypeScript, SQL, HTML, CSS
- Technical Skills:** React.JS, Django, Next.JS, Git, Rest API, MongoDB, Node.JS, Express.JS
- Course:** Object-oriented programming, Database management system, Data structure and algorithm
- Soft Skills:** Analytical Skill, Collaboration, Effective Communication

PUBLICATIONS

IEEE | Contributor | [Link](#)

JUNE-2023 – FEB-2024

- Conducted an in-depth analysis of different algorithms, research papers, and blogs and conducted an in-depth comparative analysis of the two algorithms, transform and convolutional neural networks (CNNs), for autonomous vehicle navigation.
- Engineered an autonomous prototype vehicle using Raspberry Pi and a camera to detect the lane itself, take turns accordingly, and compare approaches by achieving a CNN accuracy of approximately 77%.
- Applied Python, OpenCV, Linux, image processing techniques, and TensorFlow to develop and test algorithms, collaborating with peers and mentors to ensure robust outcomes, delivered a research paper in the 9th ICSC and published at IEEE.

EDUCATION

B. TECH in Electronics and communication

JUNE-2019 – JUNE-2023

JAYPEE INSTITUTE OF INFORMATION TECHNOLOGY, NOIDA,

ACHEIVMENT AND AWARDS

- Attained All India Rank 7048 in CodeKaze's Coding Round 2 competition, hosted on the Code Studio Platform, out of 42,000+ competitors.