Tusar kumar Parida

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Education

C.V Raman Global University — Bhubaneswar, Odisha
B.Tech. in Computer Science & Information Technology — *2021 – 2025*

Kendriya Vidyalaya (CBSE) — Dhenkanal, Odisha
Higher Secondary Education (Science) — *2019 – 2021*

Experience

Full Stack Web Development Intern — July 2024 – Sept 2024
Webstack Academy (WSA) — *Remote*

- Built a MERN stack food delivery app with features for browsing restaurants, viewing menus, managing carts, and secure order placement.
- Built user-friendly and visually appealing interfaces using React.js and Bootstrap, leading to better user engagement and satisfaction.
- Designed and implemented a RESTful API (documented in Postman) to handle authentication, menu, cart, and orders, improving backend scalability and reducing API response time by **35%**.
- Designed and maintained MongoDB schemas to manage user, restaurant, and order data effectively and securely.
- Integrated secure payment gateway APIs, streamlining transactions from order confirmation to payment and order history.

Projects

Personal Portfolio | *HTML, CSS, JavaScript* — Link

- Created a responsive portfolio to showcase skills and projects with a clean, interactive UI.
- Designed a clean and modern UI, using custom animations, smooth scrolling, and hover effects to engage visitors.
- Improved site performance, achieving Lighthouse scores above 90 for performance and accessibility, reducing initial load time by ∼40% through image lazy loading and code optimizations.
- Integrated a contact form with web3forms for direct client communication.
- Deployed the website using Vercel with continuous deployment from GitHub, and implemented SEO best practices to improve visibilty.

Human Activity Recognition | *Python, LSTM, ML models, Pandas, NumPy* — Link

- Developed a robust human activity recognition system using an ensemble of LSTM and traditional ML models with majority voting.
- Trained models on UCI HAR dataset using both pre-engineered features and raw time-series sensor data to capture complex activity patterns.
- Visualized model performance using matplotlib and evaluated using metrics such as accuracy, precision, recall, F1-score, and confusion matrices for in-depth analysis.
- Achieved **95.22%** accuracy, outperforming individual models by effectively combining feature-based and sequential learning.

Technical Skills

Languages: Java, Python, SQL (Postgres), JavaScript, HTML/CSS
Frameworks & Databases: React, MongoDB, MySQL
Developer Tools: RESTful APIs, Git, Docker, VS Code, NumPy, Pandas
Backend Technologies: Node.js, Express.js

Certifications

- Introduction to Web Development with HTML, CSS, JavaScript – **IBM**
- Database Structures and Management with MySQL – **Meta**
- AWS Cloud Practitioner Essentials – **AWS**