SANJANA LAWANDE

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EDUCATION

Stevens Institute of Technology, Hoboken, NJ

Master of Science, Computer Science, GPA- 3.7/4   *Aug 2021- May 2023*

- Coursework: Agile Methods of Software Development, Database Management Systems, Data Structures and Algorithms, Knowledge Discrimination and Data Mining, Human-Computer Interaction

University of Pune, India

Bachelor of Engineering, Mechanical Engineering, GPA- 3.8/4   *Aug 2017- May 2021*

TECHNICAL SKILLS

Programming Languages	Python, JavaScript, Java
Web Technologies	HTML, CSS, React, Express.js, Node.js, Flask, REST
Database Systems	MongoDB, MySQL
Libraries	Pandas, NumPy, Matplotlib, scikit-learn
Tools	Git, Linux, Docker, Kubernetes, Tableau

ACADEMIC PROJECTS

Blog Application   *Jan 2023 - May 2023*

- Developed a full-stack blog application using the MERN(MongoDB, Express.js, React, Node.js) stack to allow users to create and publish their own captivating blog posts.
- Implemented secure user authentication features, including login and register functionality, utilizing JSON Web Tokens(JWT) for enhanced data protection.

Fitness Exercise App | Link   *Jan 2023 - April 2023*

- Developed a user-friendly fitness web application using React18, Material UI, and integrating two separate APIs, that allows users to explore over 1000 different exercises.
- Integrated advanced features like choosing exercise categories and specific muscle group targeting options, enabling users to customize their workout routines.
- Utilized the YouTube API to pull exercise videos from YouTube, providing users with helpful visual aids for each exercise.

Child Vaccination Monitor | Link   *Aug 2022 - Dec 2022*

- Collaborated in a group of four to design and develop a full-stack web application for tracking children's vaccination schedules using React, Node.js, GraphQL, and MongoDB.
- Utilized Agile methodologies to manage the project's multiple deadlines, ensuring that the product was launched successfully within four months.
- Maintained a high user satisfaction rating of 95% by consistently monitoring performance metrics and proactively resolving any issue reported by users.

Travel Advisor App | Link   *Jan 2022 - April 2022*

- Developed a user-friendly Google Maps Travel Advisor App using React, enabling users to discover and explore restaurants, hotels, and attractions worldwide while providing filter options based on ratings.
- Utilized Rapid API's Travel Advisor API, Weather Data API, and Google Maps API to deliver accurate and real-time information to users.

Credit Card Fraud Detection Model | GitHub   *Aug 2021 - Dec 2021*

- Developed machine learning models using Logistic Regression, Decision Trees, and Random Forest algorithms to identify fraudulent credit card transactions with 98% accuracy.
- Implemented under-sampling and over-sampling techniques on skewed credit card data to improve the model's sensitivity, reducing the number of false negatives and ensuring customers are not charged for scam purchases.

WORK EXPERIENCE

Stevens Institute of Technology, Hoboken, NJ   *Aug 2022 – Dec 2022*

Graduate Teaching Assistant, Mathematical Foundations of Machine Learning

- Mentored 30 graduate students in Machine Learning concepts such as Statistics, Regression, Classification, Clustering, and Dimensionality Reduction.
- Coordinated with the professor to reorganize the syllabus to feature more interdisciplinary topics, leading to an 80% retention rate across course duration.