

THIRSHYA NIVETHA N J

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EDUCATION

SNS College of Technology

B.E CSE CGPA: 8.83 out of 10)

Coimbatore, Tamil Nadu, India

2022-Current

Bharathi Matric Higher Secondary School

HSC (12 TH) (491/600)

Coimbatore, Tamil Nadu, India

2022

Bharathi Matric Higher Secondary School

SSC (10 TH) (368/500)

Coimbatore, Tamil Nadu, India

2020

PROJECTS

Disease Prediction

[GitHub Link](#)

- This project predicts diseases using Machine Learning by analysing patient symptom data collected through a structured web interface.
- The system supports early disease identification by learning patterns from historical symptom datasets and providing real-time predictions to assist preliminary medical assessment.
- A Random Forest classifier is trained on multi-symptom data to improve prediction accuracy and reliability.
- Technologies Used: Python, Machine Learning (Random Forest), Pandas, NumPy, Scikit-learn, Flask, HTML, CSS, JavaScript.

Bridge overload detection system using Machine Learning

[GitHub Link](#)

- Developed a machine learning-based system to detect overloaded vehicles on bridges, supporting proactive structural health monitoring and safety enforcement.
- Analyzed vehicle configuration and traffic data to identify overweight trucks and generate site-specific load patterns.
- Built and trained a Random Forest model to classify normal vs overloaded vehicles with high reliability.
- Technologies Used: Python, Machine Learning, Pandas, NumPy, Scikit-learn, HTML, CSS.

Kanban Board – Task Management Web Application

[GitHub Link](#)

- Built a dynamic task management system using HTML, CSS, and JavaScript to organize workflows into To Do, In Progress, and Completed stages, improving task visibility.
- Implemented drag-and-drop functionality using DOM manipulation and event handling, enhancing user interaction efficiency.
- Technologies Used: HTML, CSS, JavaScript, Local Storage.

SKILLS

Programming Languages: HTML, CSS, Python, JavaScript

Tools Technologies: : Pandas, NumPy, Scikit-learn, CSV

Web Dev Tools : VS Code, GitHub

Databases : MySQL

Relevant Coursework : DSA, OOPs, OS

Soft Skills : Communication, problem Solving, leadership

Area of Interest: Frontend Engineering and Web Development

PARTICIPATION CERTIFICATE

Workshop: NIT Trichy—Big data analytics—2024

Ramakrishna college: Codathon analytics—2024