Swami Malode

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EDUCATION

Vishwakarma Institute of Technology   Pune, IN
Bachelor of Technology in Information Technology   *Nov. 2022 – June 2026*

PROJECTS

E-Commerce Website — Web Development / *React, Express.js, Firebase, Node.js*
- Utilized React for the frontend, Node.js for backend services, and integrated Firebase for real-time database functionality, resulting in a 35% faster data sync.
- Deployed the application using Firebase Hosting, achieving 99.9% uptime reliability and scalability to handle over 10,000 concurrent users.

Simon Says Game — Web developmment / *HTML, CSS, JavaScript, Express.js, Node.js, MongoDB*   Live
- Built using HTML, CSS, and JavaScript for the frontend, with an Express.js backend and MongoDB for storing user data and leaderboard information.
- Achieved successful deployment to a user base exceeding 300 individuals, ensuring seamless integration and positive feedback regarding application usability and performance within the first month of launch.

Sleep Efficiency Prediction —Data Science/ *R-programming Language*
- Developed a predictive model for sleep efficiency using a dataset from Kaggle, containing 618 rows and 15 columns.
- Programming Language used is R and Libraries used are caret, rpart, randomForest, e1071, gbm, Metrics, shiny
- Removed unnecessary columns, handled missing values, and converted categorical variables. Applied feature selection methods including Lasso Regression, ANOVA, and RFE.
- Implemented regression algorithms such as Random Forest, Gradient Boosting, SVR, and Decision Trees. Models were trained and tested on selected features
- The Random Forest model with RFE achieved the highest accuracy (R-squared ~0.9), effectively identifying key factors influencing sleep efficiency.
- Provided a seamless, user-friendly, and engaging platform for cultural expression.

OPEN SOURCE CONTRIBUTIONS

GirlScript Summer of Code 2024   October 2024
- Successfully completed GirlScript Summer of Code 2024 by making contributions to open-source projects and earning all badges
- Managed 20+ pull requests, collaborated with 10+ contributors.

Hactoberfest 2024   Dec 2023 – Feb 2024
- Completed Hacktoberfest 2024 by making impactful Open-source Contributions.
- Managed to make 25 Pull requests throught the event and earn all the 4 badges.

CERTIFICATIONS

The Complete Web-Development Bootcamp   Link

-Completed a Comprehensive Udemy course covering HTML5, CSS, Bootstrap, JavaScript, React.js, MongoDB, Node.js, Express.js, and SQL.

Postman API Fundamentals Student Expert certification   Link

- Hands-on certification teaching API usage, Postman, HTTP methods (GET, POST, PATCH, DELETE), scripting, API Key Authorization, and application integration.

TECHNICAL SKILLS

Languages: Java, HTML/CSS, Javascript
Problem solving: Data Structures and Algorithms, Object-Oriented Programming
Databases: MongoDB, SQL, Firebase
Frameworks: React, Node.js, Express.js, Bootstrap
Developer Tools: Git, GitHub, Figma, VS Code, Vercel.