Hit Vaghela

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PROJECTS

CERVICAL CANCER DETECTION AND ANALYSIS
MACHINE LEARNING | (LINK)
Oct. 2024

- Designed and implemented a machine learning-based system for cervical cancer detection and analysis, leveraging medical databases to enhance diagnostic accuracy.
- Implemented multiple 7 classification algorithms (e.g., Random Forest, Support Vector Machine etc.) and fine-tuned hyperparameters for optimal performance.
- Achieved [specific accuracy, e.g., >90 percent] on test data, outperforming baseline models.
- Visualized model performance using detailed metrics such as confusion matrices and precision-recall curves to evaluate classification accuracy, optimize decision thresholds, and enhance interpretability using Python (matplotlib, sklearn).

ONLINE CHATTING APPLICATION | JAVA (LINK)
Oct. 2023

- Designed and Created an Online Chatting Application in Java Language using Swing Socket Programming.
- Addressed challenges like concurrent client handling by employing multi-threading to manage multiple active connections efficiently.

GAMING WEBSITE | MEAN STACK (LINK)
April. 2024

- Developed a gaming website using the MEAN Stack (MongoDB, Express.js, Angular, Node.js) The website features 7-8 different games, each tailored to engage users with diverse real-time interactions.
- Designed a login and sign-up system with authentication and validation for secure user access.
- Integrated a reward system that allows users to earn points and achievements based on their gameplay.

ACTIVITIES

SMART INDIAN HACKATHON | PARTICIPANT
2023-2024

- Participated in the Smart Indian Hackathon 2 times, contributing to innovative solutions in various domains.
- First participation: Worked with a team to develop a solution for a Garbage Management System.
- Second participation: Led the project on Machine Learning for Cryptographic Algorithm Identification ,identify cryptographic algorithms.

COMMUNITY SERVICE | INTERNSHIP
June 2023 | Navsarjan high school , ahmedabad

- Completed a 15-day community service internship as part of the National Service Scheme (NNS) activity, focused on teaching computer science subjects to students.

EDUCATION

NIRMA UNIVERSITY , INSTITUTE OF TECHNOLOGY
BTECH IN COMPUTER SCIENCE ENGINEERING
2022-2026
CGPA : 8.5/10

SKILLS

PROGRAMMING
- Python • Java • C/C++
- MERN Stack
- Matlab

TECHNOLOGY
- AI-ML• Linux • Figma
- Git/Github
- Cisco packet tracer

FAMILIAR
- Kali linux • AWS Cloud

COURSEWORK

Intro. to AI ML
Data Structures Algorithms
Object Oriented Programming
Database Management System
Full Stack Web Development
UI/UX , Ethical Hacking
Operating Systems
Computer Networks

LINKS

Github:// **Hit vaghela**
LinkedIn:// **Hit vaghela**
Leetcode:// **Hit vaghela**

OTHER ACTIVITIES

- Member of GDG on campus (nirma university)
- participated in Amazon ML challenge