Premshainy Kumar Chintapalli

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EDUCATION :

1. Amrita Vishwa Vidyapeetham (CGPA- 7.5) 2024-2026
   Master of Technology Computer Science
2. NxtWave CCBP 4.O (CGPA-8.0) 2022-2024
   Full Stack Development
3. Gudlavalleru Engineering College (CGPA-6.74) 2018-2022
   Bachelor of Technology Electronics and Communication
4. Sri Gudi Bandi Somi Reddy Junior College, Kollipara (Marks-946) 2016-2018
   Intermediate MPC
5. Zilla Parishad High School, Ravela (GPA-7.0) 2015-2016

SKILLS:

1. Programming Languages: Python, HTML, CSS
2. Web Development: Bootstrap
3. Database Management: MySQL
4. Machine Learning: Knowledge of supervised and unsupervised learning algorithms, Experience with libraries like NumPy, Pandas, and Scikit-learn
5. Other Skills: Problem-solving and analytical thinking, Strong debugging and troubleshooting abilities

PROJECTS:

Automatic Garage Door Opener

Technologies Used: Python, Sensors, Motors, Embedded Systems

- Designed and developed an automated garage door opener to enhance accessibility and security, reducing manual effort.
- Integrated sensors and motorized mechanisms to enable smooth and automated door operation for sliding and rolling doors.
- Implemented Python-based control logic to detect user input or environmental triggers, ensuring seamless and secure access.
- Improved safety and convenience by minimizing human intervention and optimizing door operation for residential and commercial garages.

Food Munch – Responsive Food Store Website

Technologies Used: HTML, CSS, Bootstrap

- Designed and developed a responsive food store website to provide a seamless browsing experience across various devices.
- Enabled users to explore food items, view pricing details, and check available offers with an intuitive and user-friendly interface.
- Utilized Bootstrap for a mobile-friendly, visually appealing design, ensuring optimal performance and accessibility.
- Enhanced user experience and engagement through structured layouts, clear navigation, and responsive elements.

Face Detection Using Eigen Decomposition (PCA Algorithm)

- Implemented a **face detection system** using the **Eigenfaces technique** and **Principal Component Analysis (PCA)** to efficiently recognize faces in images.
- Utilized **Python, OpenCV, and NumPy** to preprocess image data, extract key facial features, and perform dimensionality reduction for accurate face identification.
- Applied **PCA** to decompose facial images into principal components, enhancing recognition accuracy while reducing computational complexity.
- Optimized the system for real-time face detection, improving **efficiency and performance** in facial recognition applications.

CERTIFICATIONS:

1. Python, MySQL: NXTWave CCBP 4.O
2. Data Structures and Algorithms: Geeks for Geeks
3. Data Science and Machine Learning Specialization: Geeks for Geeks
4. Web Development with HTML, CSS, and JavaScript: NXTWave CCBP 4.O

ACHIEVEMENTS:

1. **Achieved Gold Level on Hacker Rank** – Attained Gold status by solving 100+ challenges and accumulating over **2000 Hackathon points**, demonstrating advanced proficiency in Python and algorithmic problem-solving.
2. **Completed 100+ Leet Code Problems** – Mastered **data structures** and **algorithms** by solving 100+ problems across various difficulty levels, showcasing consistent improvement in coding and problem-solving skills.