Ayush Ghai

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SKILLS

Languages: C, C++, JavaScript, PHP, Python
Frameworks: HTML and CSS, Bootstrap, Node.JS, React
Tools/Platforms: Visual Studio Code, IBM Cognos ,Excel, Jupyter Notebook, MySQL, MongoDB, Figma, Wix
Soft Skills: Problem-Solving Skills, Team Player, Project Management

PROJECTS

AI-Based Tuberculosis Image Detection | Predictive Analytic Project Feb' 25 - Mar' 25

- Normalized chest X-ray datasets for feature extraction and noise reduction.
- Trained a Convolutional Neural Network (CNN), achieving 92% accuracy in detection.
- Performed data analysis on imaging patterns to identify key indicators, improving diagnostic reliability.
- Built a React web interface to allow easy interaction with the model for predictions

Voting Management System Oct' 2024 – Nov' 2024

- Designed & implemented a secure database using MySQL to manage voter records, election
- data, and results efficiently.
- Ensured real-time vote counting & result processing, reducing manual effort and enhancing
- accuracy.
- Enhanced security & transparency in the voting process, reducing fraudulent votes.
- Streamlined election management, ensuring smooth handling of voter data and results.
- Improved efficiency, reducing manual errors and delays in counting votes.

IOT based Intra-venous Fluid monitoring system Sept' 2023-Oct' 2023

- Developed an IoT-powered system to monitor IV fluid levels in real time, reducing manual intervention.
- Integrated smart sensors to detect fluid levels and send alerts when refills are needed.
- Built a Python-based backend to process sensor data and trigger alerts to medical staff.
- Designed a Java-based application for an intuitive interface, allowing nurses and doctors to
- track IV fluid levels remotely.
- Implemented cloud storage & database management (MySQL) to store patient records and
- fluid usage history.
- Optimized the system for real-time data transmission, ensuring quick and accurate notifications.
- Reduced risk of IV fluid depletion, preventing potential health complications for patients.
- Minimized manual workload for healthcare professionals, allowing them to focus on critical care.

CERTIFICATES

- Machine Learning with Data Science from CipherSchools — Jul' 2025
- Introduction to Data Science from Infosys — Jun' 2025
- Software Engineering from Saylor Academy — Dec' 2024
- Data Fundamentals using Python by IBM — Nov' 2024-Dec' 2024
- Data Visualization using Python by IBM — Oct' 2024-Nov' 2024
- Front-End JavaScript Frameworks: Angular from Coursera — Sept' 2022-Oct' 2022
- Front-End Web Development with React from Coursera — Aug' 2022-Sept' 2022
- Introduction to Web Development with HTML, CSS, JavaScript from Coursera — Jun' 2022-Sept' 2022

ACHIEVEMENTS

- Participated in hackathon based on Sustainable AI/ML Development — Feb' 2025
- Collaborated with a team to develop IOT based for competition, guided by Dr Neha — Sept' 2024
- Conducted a survey on Online Payments, gathering insights from more than 1000 respondents. — Dec' 2023

EDUCATION

Lovely Professional University — Since 2024
Master of Computer Application Current; ***CGPA: 7.54*** — *Punjab, India*
Lovely Professional University — 2020-2023
B.Sc. Information Technology; ***CGPA: 7.0*** — *Punjab, India*
Triple M Public School, Hoshiarpur — 2017-2019
XII (PSEB) (PCM); ***Percentage: 61%*** — *Punjab, India*