UJJWAL JHA

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EDUCATION

LOVELY PROFESSIONAL UNIVERSITY Phagwara, Punjab
Bachelor of Technology Expected July 2026
Major in Computer Science
Relevant Coursework: Database Management System, Software Engineering; Operating Systems; Algorithms; Networking.

PROJECTS

PAPERLESS SCHOLARSHIP DISBURSEMENT SYSTEM | PMSSS, Secure Online Portal (September 2024)

- Engineered a digital system for the Prime Minister's Special Scholarship Scheme (PMSSS).
- Crafted a secure portal for document management, reducing processing time.
- Established automated workflows between SAG and Finance Bureaus.
- Incorporated real-time tracking and notification features with data privacy compliance

FACIAL RECOGNITION SYSTEM | PYTHON, OPENCV (MAY 2024)

- Constructed a facial recognition system using Python and OpenCV, achieving an accuracy rate of 95% in showing faces from live video feeds.
- Incorporated advanced image processing techniques, including Haar Cascade classifiers and deep learning models, to achieve a 40% reduction in false positive rates.

EDUTECH WEBSITE | MERN Stack (August 2024)

- Developed a comprehensive educational platform for a startup company using MongoDB, Express.js, React, and Node.js (MERN stack).
- Implemented features such as user authentication, course management, and a responsive user interface, resulting in a 50% increase in user engagement.
- Integrated analytics tools to track user interaction and optimize content delivery, improving the overall user experience by 35%.
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HUMAN ACTIVITY RECOGNITION | PYTHON, PANDAS, MYSQL (MAY 2023)

- Built a machine learning pipeline to classify activities using smartphone sensor data, achieving over 90% accuracy.
- Enhanced data quality by implementing noise filtering, feature extraction, and windowing techniques; transformed raw accelerometer and gyroscope signals into actionable insights, improving algorithm accuracy by 40%.
- Evaluated multiple machine learning models such as decision trees, random forests, SVMs, and neural networks to find the most effective algorithm for activity classification.

CAREER COUNSELLING PLATFORM | AI-Powered Solutions (September 2024)

- Developed an AI-driven career guidance platform aimed at enhancing student career choices and aligning education with future aspirations.
- Integrated personalized career advice features based on student interests and market trends, improving user engagement by 40%..
- Created interactive career exploration tools and resources, including virtual simulations and comprehensive career resource portals, to support informed decision-making and align with NEP 2020 goals..

ADDITIONAL

Technical Skills: C++, Python, JavaScript, HTML/CSS, SQL, SQL, Git, GitHub
Languages: Fluent in English, Hindi, Telugu
Certifications & Training: Programming in Python (Coursera),Completed training in Data Science and Machine Learning from GeeksForGeeks, completed training in Full Stack Development with React & Node JS from GeeksForGeeks