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

QUIZ APP | React, Node.js, JWT (May 2024)

- Engineered a full-stack quiz platform with React for user experience and Node.js for back-end processing, increasing user retention by 30% and system stability by 20%.
- Designed and integrated RESTful APIs and ensured secure user authentication with JWT, managing 1,000+ API calls per day.
- Enhanced user experience through admin dashboards, real-time score tracking, and error handling, leading to a 25% increase in daily active users.

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.

PUBG GAME PREDICTION | PYTHON, SCIKIT-LEARN (MAY 2023)

- Formulated a machine learning model using Python and scikit-learn to predict the outcome of PUBG games based on various in-game features.
- Applied feature engineering techniques to enhance model accuracy, including data cleaning, normalization, and managing 1missing values from the dataset.
- Reached an 85% accuracy rate by tuning hyperparameters and using algorithms such as Random Forest and Gradient Boosting.

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.

MNIST HANDWRITTEN DIGIT RECOGNIZER | NUMPY, MATPLOTLIB (MAY 2023)

- Implemented a Convolutional Neural Network (CNN) on the MNIST dataset, gaining experience in image classification tasks and achieving an accuracy of 95%.
- Applied data augmentation techniques to enhance image dataset diversity, leading to a 20% improvement in model generalization and a 30% boost in accuracy on previously unseen data.
- Demonstrated ability in working with image data in Python using libraries like NumPy and Matplotlib for data manipulation and visualization.

ADDITIONAL

Technical Skills: C++, Python, JavaScript, HTML/CSS, SQL, SQL, Lightning Web Component, 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