Pragyan Adhikari

+977-9840252194| pragyanadhikari961@gmail.com |Portfolio | Github

Skills

Databases: MySQL, MongoDB
Programming: Python, C, C++, Dart
Web Development: HTML, CSS, Flutter
Tools and Software: Cisco Packet Tracer

Projects

Stock Market Prediction App - https://github.com/Pragyanadhikari/Major-Project-UI.git

- Developed a Flutter-based mobile app for predicting stock prices.
- Used Flutter Firebase for storage of accounts and user stock history and Flutter for frontend interfaces.
- Integrated RL and TFT for prediction of stock.

Heart Disease Detection Model - https://github.com/Pragyanadhikari/HeartDiseaseDetection

- Developed an ensemble-based classification model to predict heart disease risk using clinical features.
- Combined multiple algorithms like logistic Regression, KNN, SVM, Random Forest, Decision Tree to improve accuracy and robustness.
- Cleaned and analyzed health datasets using Pandas and Sci-kit Learn.

Tic-Tac-Toe Mobile Game - https://github.com/Pragyanadhikari/Tiktactoe-mobile-game

- Developed a cross-platform Tic-Tac-Toe game using Flutter and Dart for both Android and iOS.
- Implemented responsive game UI with clear state management and real-time turn logic.
- Added features for player vs player mode, game reset, and local score tracking.

BMI Calculator App - https://github.com/Pragyanadhikari/BMI-APP

- Created a BMI (Body Mass Index) calculator with Flutter for mobile platforms.
- Built an intuitive UI for users to enter height and weight; computes and displays BMI instantly.
- Incorporated color-coded results (Underweight, Normal, Overweight, Obese) for better user comprehension.

Hand Gesture Volume Control - https://github.com/Pragyanadhikari/HandGesture_Volume_control

- Created a Python-based hand gesture recognition system to control system volume using webcam input.
- Utilized OpenCV and MediaPipe libraries to detect hand landmarks and calculate distance between fingers.
- Mapped gesture-based inputs to adjust audio output volume dynamically, offering a touchless interaction experience.

Nepali Calendar Module - https://github.com/Pragyanadhikari/NepaliCalender

- Developed a Python module to convert English (Gregorian) dates to Nepali (Bikram Sambat) dates.
- Incorporated CSV-based lookup for Nepali month/day structure and accurate date mapping.
- Potential use in date conversion, tithi determination, and Nepali event reminders for applications supporting the Nepali calendar system.

Handwritten Digit Recognition - https://github.com/Pragyanadhikari/HandWritten-Digit-Recognition

- Created machine learning models like KNN, SVM and Regression to recognize handwritten digits using Python and TensorFlow.
- Processed image data, built and trained neural networks for digit classification.
- Achieved high accuracy with data augmentation and optimized model parameters.

Education

Tribhuvan University – Bachelor in Computer Engineering – 80% 2020-2025
Relevant Course- Data Structure and Algorithm, Operating System, Computer Network, DBMS
Capital College and Research Center – +2 in Science 2018-2020