Saloni Chaurasia

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Education

VIT Bhopal University   Bhopal Madhya Pradesh
B. Tech   Expected May 2026
Major in Computer Science;

Minor in Artificial Intelligence and Machine Learning Current CGPA- 8.71
12th Standard
Central Academy Sr. Sec School   Udaipur, Rajasthan
CBSE Percentage : 82%   July,2022
10th Standard
Central Academy Sr. Sec School   Udaipur, Rajasthan
CBSE Percentage : 86.6 %   July,2020

Projects and Articles

Research on Gait abnormality Prediction (Group)

- Researched gait abnormality prediction using ML algorithms like SVM, KNN, and CNN.
- Developed models to analyze gait patterns and detect abnormalities with high accuracy.
- Processed large datasets to extract features and enhance model precision.

Vehicle Detection System (Group)

- Implemented real-time vehicle detection and classification using **YOLOv8.**
- Developed an efficient system for identifying and categorizing vehicle types.
- Designed a vehicle counting method using virtual line tracking.
- Analyzed video feeds to enhance detection robustness and reliability.
- Optimized the model for high accuracy and real-time performance.

Customer Churn Prediction

- Built a customer churn prediction model using the **Telco Customer Churn Dataset.**
- Performed data preprocessing, feature engineering, and handled missing values.
- Trained and evaluated models like **Logistic Regression, Random Forest, and XGBoost.**
- Used **SHAP** for model interpretability and analyzed performance with ROC curves.
- Technologies: Python, Scikit-learn, XGBoost, SHAP, Matplotlib, Seaborn.

Fraud Detection in Financial Transactions

- Developed a fraud detection system using classification and anomaly detection techniques.
- Addressed data imbalance with **SMOTE** and class weighting for better model performance.
- Trained Random Forest, XGBoost, and Isolation Forest, achieving an F1-score of 0.8578.
- Optimized models using Grid Search and feature importance analysis.
- Implemented **ensemble learning** (Voting Classifier) for improved accuracy.
- Deployed the model with Flask for real-time transaction monitoring.
- Technologies: Python, Scikit-learn, XGBoost, Imbalanced-learn, SMOTE, Isolation Forest.

VOC & Image-Based Plant Disease Detection using ML & IoT (Group) (Team Lead) (Going on)

ML Integration for VOC & Image-Based Plant Disease Detection (my contribution)

- Integrated VOC sensors, soil moisture, and temperature data with machine learning algorithms to detect plant stress levels.
- Preprocessed and linked **Excel-based sensor data** with image datasets for comprehensive disease analysis.
- Implemented **CNNs and ML models** to classify plant diseases based on visual symptoms and environmental factors.
- Optimized model accuracy using **hyperparameter tuning and data augmentation techniques**.
- Developed a **multi-modal AI model** integrating **sensor readings and plant images** for early disease detection in crops.
- Developed a user-friendly **dashboard for real-time analysis and predictions**.

Skills and Certificates

- Certification Course in MATLAB Simulink   Oct 2022
- Certification Course in Intro to Problem Solving through Vityarthi   May,2023
- Completed machine learning course from Teachnook   June,2023
- Certification course in Privacy and Security in Online Social Media, through NPTEL   April,2024
- Online Course in Machine Learning through Coursera   Dec,2023
- Certification course in Computer Vision through Vityarthi   Dec,2024
- Completed proficiency in Machine Learning course from Finlatics   Dec,2024
- Gained letter of recommendation from Finlatics   Dec,2024
- Participated in Viksit Bharat Quiz Challenge   Dec,2024
- Participated in Women to code hackathon in GFG   Jan,2025
- Qualified round 1 Google India Girl Hackathon   Feb, 2025
- Qualified in Talent unstop round 1   Feb, 2025

Languages

- Python, Java, C++, AIML
- Languages fluent in English, Hindi

WORK HISTORY

- **Internship at Teachnook from 19/05/23 to 19/06/23**
- **Internship at Finlatics from 6/10/24 to 21/12/24**