MALLADI SAIRAM KARTHIK

GitHub | LinkedIn | sairamkarthik2005@gmail.com | CodeChef | LeetCode

Summary

Aspiring Machine Learning Engineer with a focus on healthcare applications. Skilled in Python, SQL, and machine learning libraries. Passionate about applying these skills to healthcare applications, driving innovative solutions and enhancing patient outcomes through data-driven decision-making.

Skills

Programming	Python, C, C++, SQL(beginner)
Libraries	NumPy, Pandas, Scikit-learn, Matplotlib, PyTorch
Tools	Git, Jupyter Notebook, Linux (pop os)
Languages	English (Fluent), Hindi (Fluent), Japanese (N5 Capable)
Soft Skills	Teamwork, Communication, Problem-Solving, Time Management

Projects

Fraud Detection using Machine Learning GitHub Repository

- Built a classification model to detect fraudulent financial transactions. Utilized logistic regression and anomaly detection techniques (Isolation Forest).
- Achieved 98% accuracy in detecting fraudulent transactions using machine learning, enhancing financial security and minimizing fraud risks.

House Price Prediction GitHub Repository

- Built a Linear Regression model predicting house prices based on features like area and location.
- Improved model efficiency through data cleaning, feature selection, and correlation visualization.
- Achieved a Mean Squared Error (MSE) of less than 0.09, ensuring high precision in property valuation.

SmartCredit-Risk Analyzer GitHub Repository

- Created a model to predict customer credit default probabilities.
- Implemented Logistic Regression and XGBoost for high accuracy classification. Used feature selection techniques to improve interpretability of predictions.
- Achieved an 81% accuracy in predicting credit card defaults using machine learning, effectively identifying high-risk customers and improving credit risk assessment.

Disease Prediction GitHub Repository

- Developed a multi-class classification model to predict diseases from symptoms using Logistic Regression and Random Forests.
- Preprocessed datasets and engineered features for improved accuracy.
- Achieved 97% accuracy in predicting diseases based on symptoms using machine learning, aiding in early diagnosis and improving healthcare decision-making.

Education

2023 – Present	**B.Tech**, Computer Science and Engineering, SRM University, AP	8.52
2022	**Class 12th (Higher Secondary)**	90%
2020	**Class 10th (Secondary School)**	100%

PROFESSIONAL DEVELOPMENT

2024 **Adaovi Course**: Completed a Python programming course at Adaovi, enhancing skills in Python fundamentals, data structures, and programming best practices. Certificate

2024 **Coursera Course**: Supervised Machine Learning: Regression and Classification by Andrew Ng. Learned regression techniques, classification algorithms, and model evaluation metrics. Certificate