

WEEKLY REPORT

Work done in last week (Attach supporting Documents):

1. **Gained practical experience building a **Linear Regression** model to predict house prices based on numerical features.**
 - Explored the dataset structure and cleaned missing values
 - Selected relevant features
 - Trained a linear regression model using Scikit-Learn
 - Evaluated performance using MSE and R^2 score
 - Visualized actual vs. predicted prices
2. **Developed and evaluated models for the Wine Quality Prediction project.**
 - Focused on classifying wine quality using chemical features
 - Built and compared performance of Random Forest, SGD, and SVC classifiers
 - Performed EDA using Pandas, Seaborn, and Matplotlib
 - Analyzed feature importance and confusion matrices
3. **Worked on the Fraud Detection project using a financial dataset.**
 - Implemented anomaly detection techniques and machine learning models
 - Focused on Logistic Regression, Decision Trees, and Neural Networks
 - Performed feature engineering and scaling
 - Evaluated model accuracy and visualized fraud vs. genuine transactions

Reason for incomplete work: N/A – All planned tasks completed for Week 3.

Plans for next week:

Project: Autocomplete and Autocorrect Data Analysis

- Develop a real-time suggestion system using n-gram models and edit distance
- Build a web interface using Flask and integrate the model
- Test and visualize suggestion accuracy

Project : Unveiling the Android App Market:

References:

- Oasis Infobyte: <https://oasisinfobyte.com/>
- Scikit-learn Documentation
- GeeksforGeeks Machine Learning Series

Signature of External Guide



Program Coordinator

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