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In [ ]: #Setting up basic Logistic Regression with feature selection
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In [ ]: import pandas as pd
import numpy as np
from sklearn.linear_model import LogisticRegression
from sklearn.feature_selection import RFE
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In [ ]: df = pd.read_csv('nba_data.csv')
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In [ ]: from sklearn.model_selection import train_test_split

X = df.drop('win', axis=1) # Features
y = df['win'] # Target variable

X_train, X_test, y_train, y_test = train_test_split(X, y, test_size=0.3, random_state=42)
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In [ ]: # Create a logistic regression model
logistic_regression = LogisticRegression()

# Create the RFE model and select 3 attributes
rfe = RFE(logistic_regression, 3)
rfe = rfe.fit(X_train, y_train)

# Print the features that were selected
print(X_train.columns[rfe.support_])
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In [ ]: # Fit the model on the training data
logistic_regression.fit(X_train, y_train)

# Make predictions on the testing data
predictions = logistic_regression.predict(X_test)

# Evaluate the model using metrics such as accuracy, precision, and recall
from sklearn.metrics import accuracy_score, precision_score, recall_score

print('Accuracy:', accuracy_score(y_test, predictions))
print('Precision:', precision_score(y_test, predictions))
print('Recall:', recall_score(y_test, predictions))
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