

AI and DS-1

Experiment 5

MSE and R^2 of linear regression model

```
[ ] mse = mean_squared_error(y_test, y_pred)

[ ] print(f"Linear Regression MSE: {mse}")
↳ Linear Regression MSE: 60078.54486639962

[ ] r2 = r2_score(y_test, y_pred)
   print(f"R2 Score: {r2}")
↳ ♦ R2 Score: 0.20655238579347845
```

Accuracy and classification report of logistic regression model

```
# Evaluate Model Performance
accuracy = accuracy_score(y_test, y_pred)
print(f"Accuracy: {accuracy:.4f}")

print("\nClassification Report:")
print(classification_report(y_test, y_pred))
```

```
↳ Accuracy: 0.8443

Classification Report:
              precision    recall  f1-score   support

     0           0.87       0.83       0.85        13686
     1           0.82       0.86       0.84        12109

 accuracy                   0.84        25795
  macro avg              0.84       0.85       0.84        25795
 weighted avg            0.85       0.84       0.84        25795
```

