STATS 3DA3

Homework Assignment 6

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Question

1)

Our target variable measure the severity of heart disease which can be defined as binary classification problem. Our goal would then to be able to predict the probability of heart disease. This means we can carry out a logistic regression and a random forest classifier to predict the presence and absence of heart disease.

2)

```
from ucimlrepo import fetch_ucirepo
from sklearn.preprocessing import StandardScaler

heart_disease = fetch_ucirepo(id=45)

X = heart_disease.data.features
y = heart_disease.data.targets

scaler = StandardScaler()
X_train_scaled = scaler.fit_transform(X)
```

3)

We have 13 features and 1 target variable. Starting with our features, we have age (age in years), sex (1 = male; 0 = female), cp (1: typical angina, 2: atypical angina, 3: non-anginal pain, 4: asymptomatic), trestbps (resting blood pressure in mm Hg on admission to the hospital), chol (serum cholestoral in mg/dl), fbs (fasting blood sugar > 120 mg/dl where 1 = true; 0 = false), restecg (resting electrocardiographic results), exang (exercise induced angina), oldpeak (ST depression induced by exercise relative to rest), slope (1 = upsloping, 2 = flat, 3 = downsloping), ca (number of major vessels colored by floursopy), thal (3 = normal; 6 = fixed defect; 7 = reversable defect). Finally our target variable, 'num', is the diagnosis of heart disease.

```
print(f"Observations in X: {len(X)}")
print(f"Summary of X:\n{X.describe()}")
print(f"Summary of y:\n{y.describe()}")
```

Observations in X: 303

Summary of X:

	age	sex	ср	trestbps	chol	fbs	\
count	303.000000	303.000000	303.000000	303.000000	303.000000	303.000000	
mean	54.438944	0.679868	3.158416	131.689769	246.693069	0.148515	
std	9.038662	0.467299	0.960126	17.599748	51.776918	0.356198	
min	29.000000	0.000000	1.000000	94.000000	126.000000	0.000000	
25%	48.000000	0.000000	3.000000	120.000000	211.000000	0.000000	
50%	56.000000	1.000000	3.000000	130.000000	241.000000	0.000000	
75%	61.000000	1.000000	4.000000	140.000000	275.000000	0.000000	
max	77.000000	1.000000	4.000000	200.000000	564.000000	1.000000	
	restecg	thalach	exang	oldpeak	slope	ca	\
count	303.000000	303.000000	303.000000	303.000000	303.000000	299.000000	
mean	0.990099	149.607261	0.326733	1.039604	1.600660	0.672241	
std	0.994971	22.875003	0.469794	1.161075	0.616226	0.937438	
min	0.000000	71.000000	0.000000	0.000000	1.000000	0.000000	
25%	0.000000	133.500000	0.000000	0.000000	1.000000	0.000000	
50%	1.000000	153.000000	0.000000	0.800000	2.000000	0.000000	
75%	2.000000	166.000000	1.000000	1.600000	2.000000	1.000000	
max	2.000000	202.000000	1.000000	6.200000	3.000000	3.000000	

thal

count 301.000000
mean 4.734219
std 1.939706
min 3.000000
25% 3.000000

```
50%
         3.000000
75%
         7.000000
max
         7.000000
Summary of y:
              num
       303.000000
count
         0.937294
mean
         1.228536
std
         0.000000
\min
25%
         0.000000
50%
         0.000000
         2.000000
75%
         4.000000
max
```

We find that the average age of patients is 54.4 years old, with a standard deviation of 9.1 years.

```
print(f"Data Types of X: \n{X.dtypes}")
print(f"\nData Types of y: \n{y.dtypes}")
```

Data Types of X: int64age int64 sex int64ср trestbps int64chol int64 int64fbs restecg int64thalachint64int64exang oldpeak float64 int64slope float64 ca

```
dtype: object
Data Types of y:
num
       int64
dtype: object
All of our data types in X are numerical but some representing categorical variables.
4)
print(f"y before transformation: {y['num'].value_counts()}")
y['num'] = y['num'].apply(lambda x: 1 if x > 0 else 0)
print(f"y before transformation: {y['num'].value_counts()}")
y before transformation: num
0
     164
1
      55
2
      36
3
      35
4
      13
Name: count, dtype: int64
y before transformation: num
     164
0
     139
1
Name: count, dtype: int64
/var/folders/5q/w2pw9gp90mldwv2xvm9ml_jc0000gn/T/ipykernel_61415/2854447611.py:2: SettingWithC
A value is trying to be set on a copy of a slice from a DataFrame.
Try using .loc[row_indexer,col_indexer] = value instead
See the caveats in the documentation: https://pandas.pydata.org/pandas-docs/stable/user_guide/
  y['num'] = y['num'].apply(lambda x: 1 if x > 0 else 0)
```

thal

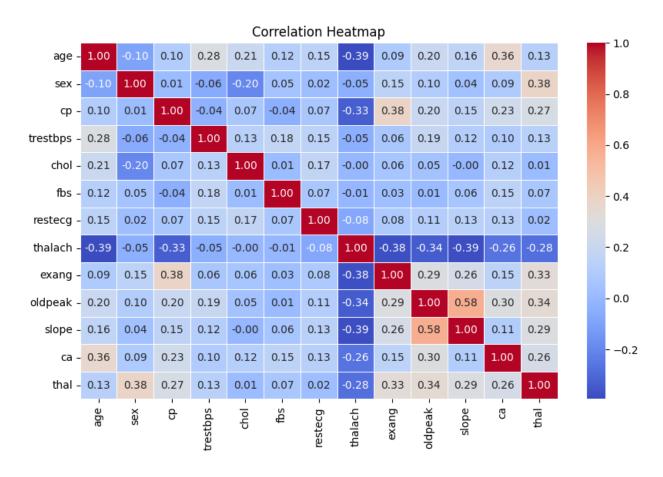
float64

5)

```
import seaborn as sns
import matplotlib.pyplot as plt

corr_matrix = X.corr()

plt.figure(figsize=(10, 6))
sns.heatmap(corr_matrix, annot=True, cmap='coolwarm', fmt=".2f", linewidths=0.5)
plt.title("Correlation Heatmap")
plt.show()
```



From this correlation matrix, we can conclude that thalach (max heart rate) has a strong negative correlation (-0.39) with age and oldpeak. We can assume that younger individuals tend to have a higher heart rate, while those with more severe heart disease (higher oldpeak) have lower thalach.

We also found that ca (number of major vessels) has a strong positive correlation (0.36) with age. We can say that older individuals are more likely to have more blocked vessels.

6)

```
X = X.dropna()
y = y.loc[X.index]

print(f"Length of X after transformations: {len(X)}")

print(f"Length of y after transformations: {len(y)}")

Length of X after transformations: 297

Length of y after transformations: 297
```

7)

```
import pandas as pd

for default, group in df_sub.groupby('default'):
    plt.scatter(
        group['slope'],
        group['thalach'],
        label=default,
        )

plt.xlabel('slope')
plt.ylabel('thalach')
plt.title('Scatter plot of slope vs thalach')
plt.legend(title = 'Default')
plt.show()
```

8)

```
from sklearn.model_selection import train_test_split

X_train, X_test, y_train, y_test = train_test_split(X, y, test_size=0.30, random_state=1)
```

9)

We are going to use logistic regression and random forest. Logistic regression is suitable for this assignment because it predicts a binary outcome, in which case, the target variable is 0 or 1. Random forest is also a good classifier to use because it has high predictive accuracy and does not depend on linear relationships, which is good for this dataset as there are both numerical and categorical variables.

10)

We are going to use accuracy and F1 scores to compare the classifier performance between logistic regression and random forest. We can create the confusion matrix from the predictions to calculate the accuracy and F1 scores. Accuracy scores are calculated by the number of correct predictions over the total number of predictions.

$$\begin{aligned} & \text{Accuracy} = \frac{TP + TN}{TP + TN + FP + FN} \\ & \text{Where:} \\ & TP = \text{True Positives} \\ & TN = \text{True Negatives} \\ & FP = \text{False Positives} \\ & FN = \text{False Negatives} \end{aligned}$$

To obtain the F1 score, we will need to use precision and recall that are derived from the confusion matrix. Once we calculate that, the F1 score can be calculated by:

$$\begin{aligned} \text{Precision} &= \frac{TP}{TP + FP} \\ \text{Recall} &= \frac{TP}{TP + FN} \\ F_1 &= \frac{2 \times \text{Precision} \times \text{Recall}}{\text{Precision} + \text{Recall}} \end{aligned}$$

Using these metrics, we can compare the overall accuracy and balance between the two classifiers to determine which classifier most optimal for predicting heart disease.

11)

```
import numpy as np
from sklearn.model_selection import train_test_split, GridSearchCV
from sklearn.preprocessing import StandardScaler
from sklearn.linear_model import LogisticRegression
from sklearn.metrics import accuracy_score, confusion_matrix, classification_report
scaler = StandardScaler()
X_train_scaled = scaler.fit_transform(X_train)
X_test_scaled = scaler.transform(X_test)
log reg = LogisticRegression(solver='liblinear', max iter=1000, random state=42)
param_grid = {
    'penalty': ['11', '12'],
    'C': np.logspace(-4, 4, 20)
}
grid_search = GridSearchCV(estimator=log_reg, param_grid=param_grid, cv=5, scoring='accuracy',
grid_search.fit(X_train_scaled, y_train)
```

```
print("Best parameters found: ", grid_search.best_params_)
print("Best cross-validation accuracy: {:.4f}".format(grid_search.best_score_))

best_log_reg = grid_search.best_estimator_
y_pred = best_log_reg.predict(X_test_scaled)
y_pred2 = best_log_reg.predict(X_train_scaled)

accuracy = accuracy_score(y_test, y_pred)
train_accuracy = accuracy_score(y_train, y_pred2)
cm = confusion_matrix(y_test, y_pred)
report = classification_report(y_test, y_pred, target_names=['No Heart Disease', 'Heart Disease'
print(f"Test set accuracy: {accuracy:.4f}")
print(f"Train set accuracy: {train_accuracy:.4f}")
print("Confusion Matrix:")
print(cm)
print("Classification Report:")
print(report)
```

Fitting 5 folds for each of 40 candidates, totalling 200 fits

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Best parameters found: {'C': 0.08858667904100823, 'penalty': '12'}

Best cross-validation accuracy: 0.8458

Test set accuracy: 0.8444
Train set accuracy: 0.8551

Confusion Matrix:

[[43 8]

[6 33]]

Classification Report:

	precision	recall	f1-score	support
No Heart Disease	0.88	0.84	0.86	51
Heart Disease	0.80	0.85	0.82	39
accuracy			0.84	90
macro avg	0.84	0.84	0.84	90
weighted avg	0.85	0.84	0.84	90

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from sklearn.model_selection import train_test_split, GridSearchCV
from sklearn.preprocessing import StandardScaler
from sklearn.ensemble import RandomForestClassifier, GradientBoostingClassifier
from sklearn.metrics import accuracy_score, confusion_matrix, classification_report
```

```
rf_clf = RandomForestClassifier(random_state=42)
rf_param_grid = {
            'n_estimators': [100, 200, 300],
            'max_depth': [None, 10, 20, 30],
            'min_samples_split': [2, 5, 10],
            'min_samples_leaf': [1, 2, 4],
            'max_features': ['sqrt', 'log2', None],
            'criterion': ['gini', 'entropy']
}
rf grid search = GridSearchCV(estimator=rf_clf, param_grid=rf_param_grid, cv=5, scoring='accurates rf_clf, param_grid=rf_param_grid, cv=5, scoring='accurates rf_clf, param_grid=rf_param_grid, cv=5, scoring='accurates rf_clf, param_grid=rf_param_grid=rf_param_grid, cv=5, scoring='accurates rf_clf, param_grid=rf_param_grid=rf_param_grid=rf_param_grid=rf_param_grid=rf_param_grid=rf_param_grid=rf_param_grid=rf_param_grid=rf_param_grid=rf_param_grid=rf_param_grid=rf_param_grid=rf_param_grid=rf_param_grid=rf_param_grid=rf_param_grid=rf_param_grid=rf_param_grid=rf_param_grid=rf_param_grid=rf_param_grid=rf_param_grid=rf_param_grid=rf_param_grid=rf_param_grid=rf_param_grid=rf_param_grid=rf_param_grid=rf_param_grid=rf_param_grid=rf_param_grid=rf_param_grid=rf_param_grid=rf_param_grid=rf_param_grid=rf_param_grid=rf_param_grid=rf_param_grid=rf_param_grid=rf_param_grid=rf_param_grid=rf_param_grid=rf_param_grid=rf_param_grid=rf_param_grid=rf_param_grid=rf_param_grid=rf_param_grid=rf_param_grid=rf_param_grid=rf_param_grid=rf_param_grid=rf_param_grid=rf_param_grid=rf_param_grid=rf_param_grid=rf_param_grid=rf_param_grid=rf_param_grid=rf_param_grid=rf_param_grid=rf_param_grid=rf_param_grid=rf_param_grid=rf_param_grid=rf_param_grid=rf_param_grid=rf_param_grid=rf_param_grid=rf_param_grid=rf_param_grid=rf_param_grid=rf_param_grid=rf_param_grid=rf_param_grid=rf_param_grid=rf_param_grid=rf_param_grid=rf_param_grid=rf_param_grid=rf_param_grid=rf_param_grid=rf_param_grid=rf_param_grid=rf_param_grid=rf_param_grid=rf_param_grid=rf_param_grid=rf_param_grid=rf_param_grid=rf_param_grid=rf_param_grid=rf_param_grid=rf_param_grid=rf_param_grid=rf_param_grid=rf_param_grid=rf_param_grid=rf_param_grid=rf_param_grid=rf_param_grid=rf_param_grid=rf_param_grid=rf_param_grid=rf_param_grid=rf_param_grid=rf_param_grid=rf_param_grid=rf_param_grid=rf_param_grid=rf_param_grid=rf_param_grid=rf_param_grid=rf_param_grid=rf_param_grid=rf_param_grid=rf_param_grid=rf_param_grid=rf_param_grid=rf_param_grid=rf_param_grid=rf_param_grid=rf_param_grid=rf_param_grid=r
rf_grid_search.fit(X_train_scaled, y_train)
print("Random Forest Best Parameters:", rf_grid_search.best_params_)
print("Random Forest Best Cross-Validation Accuracy:", rf_grid_search.best_score_)
best_rf_clf = rf_grid_search.best_estimator_
rf_y_pred = best_rf_clf.predict(X_test_scaled)
# Evaluate the Random Forest model's performance
rf_accuracy = accuracy_score(y_test, rf_y_pred)
rf_cm = confusion_matrix(y_test, rf_y_pred)
rf_report = classification_report(y_test, rf_y_pred, target_names=[f'Class {i}' for i in np.un
# Display Random Forest results
print(f"Random Forest Test Accuracy: {rf_accuracy:.4f}")
print("Random Forest Confusion Matrix:")
print(rf_cm)
print("Random Forest Classification Report:")
print(rf_report)
```

```
return fit_method(estimator, *args, **kwargs)
/Users/jasmineho/Library/Python/3.9/lib/python/site-packages/sklearn/base.py:1389: DataConvers
  return fit_method(estimator, *args, **kwargs)
Fitting 5 folds for each of 648 candidates, totalling 3240 fits
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KeyboardInterrupt:
KeyboardInterrupt
                                          Traceback (most recent call last)
Cell In[44], line 18
                                    'n_estimators': [100, 200, 300],
                                                                                 'max_depth': [
     8 rf_param_grid =
                                                                         10
     17 rf_grid_search = GridSearchCV(estimator=rf_clf, param_grid=rf_param_grid, cv=5, scoring
---> 18 rf_grid_search.fit(X_train_scaled, y_train)
     20 print("Random Forest Best Parameters:", rf_grid_search.best_params_)
     21 print("Random Forest Best Cross-Validation Accuracy:", rf_grid_search.best_score_)
File ~/Library/Python/3.9/lib/python/site-packages/sklearn/base.py:1389, in _fit_context.<local
  1382
            estimator._validate_params()
  1384 with config_context(
   1385
            skip_parameter_validation=(
                prefer_skip_nested_validation or global_skip_validation
   1386
            )
  1387
  1388 ):
-> 1389
            return fit_method(estimator, *args, **kwargs)
File ~/Library/Python/3.9/lib/python/site-packages/sklearn/model_selection/_search.py:1024, in
```

```
1018
            results = self._format_results(
   1019
                all_candidate_params, n_splits, all_out, all_more_results
   1020
            )
   1022
            return results
-> 1024 self._run_search(evaluate_candidates)
   1026 # multimetric is determined here because in the case of a callable
   1027 # self.scoring the return type is only known after calling
   1028 first_test_score = all_out[0]["test_scores"]
File ~/Library/Python/3.9/lib/python/site-packages/sklearn/model_selection/_search.py:1571, in
   1569 def _run_search(self, evaluate_candidates):
            """Search all candidates in param_grid"""
   1570
-> 1571
            evaluate_candidates(ParameterGrid(self.param_grid))
File ~/Library/Python/3.9/lib/python/site-packages/sklearn/model_selection/_search.py:970, in 1
    962 if self.verbose > 0:
    963
            print(
    964
                "Fitting 0 folds for each of 1 candidates,"
    965
                " totalling 2 fits".format(
    966
                    n_splits, n_candidates, n_candidates * n_splits
                )
    967
    968
            )
--> 970 out = parallel(
    971
            delayed(_fit_and_score)(
    972
                clone(base_estimator),
    973
                Х,
    974
                у,
    975
                train=train,
    976
                test=test,
    977
                parameters=parameters,
    978
                split_progress=(split_idx, n_splits),
    979
                candidate_progress=(cand_idx, n_candidates),
    980
                **fit_and_score_kwargs,
    981
            )
```

```
982
            for (cand_idx, parameters), (split_idx, (train, test)) in product(
    983
                enumerate(candidate_params),
    984
                enumerate(cv.split(X, y, **routed_params.splitter.split)),
    985
            )
    986)
    988 if len(out) < 1:
    989
            raise ValueError(
    990
                "No fits were performed. "
    991
                "Was the CV iterator empty? "
    992
                "Were there no candidates?"
            )
    993
File ~/Library/Python/3.9/lib/python/site-packages/sklearn/utils/parallel.py:77, in Parallel.
     72 config = get_config()
     73 iterable_with_config = (
            (_with_config(delayed_func, config), args, kwargs)
     74
            for delayed_func, args, kwargs in iterable
     76)
---> 77 return super().__call__(iterable_with_config)
File ~/Library/Python/3.9/lib/python/site-packages/joblib/parallel.py:2007, in Parallel.__call
  2001 # The first item from the output is blank, but it makes the interpreter
  2002 # progress until it enters the Try/Except block of the generator and
  2003 # reaches the first `yield` statement. This starts the asynchronous
  2004 # dispatch of the tasks to the workers.
  2005 next(output)
-> 2007 return output if self.return_generator else list(output)
File ~/Library/Python/3.9/lib/python/site-packages/joblib/parallel.py:1650, in Parallel._get_or
   1647
            yield
   1649
            with self._backend.retrieval_context():
-> 1650
                yield from self._retrieve()
   1652 except GeneratorExit:
   1653
            # The generator has been garbage collected before being fully
            # consumed. This aborts the remaining tasks if possible and warn
   1654
```

```
1655
           # the user if necessary.
   1656
            self._exception = True
File ~/Library/Python/3.9/lib/python/site-packages/joblib/parallel.py:1762, in Parallel._retric
   1757 # If the next job is not ready for retrieval yet, we just wait for
   1758 # async callbacks to progress.
   1759 if ((len(self._jobs) == 0) or
   1760
            (self._jobs[0].get_status(
                timeout=self.timeout) == TASK_PENDING)):
   1761
-> 1762
           time.sleep(0.01)
   1763
           continue
   1765 # We need to be careful: the job list can be filling up as
   1766 # we empty it and Python list are not thread-safe by
   1767 # default hence the use of the lock
```

KeyboardInterrupt: