

CSC-722: Machine Learning Fundamentals

accuracy_score, precision_score, recall_score, f1_score,

Downloading ucimlrepo-0.0.6-py3-none-any.whl.metadata (5.3 kB)

Fetching the dataset with ID 244 from the UCI Machine Learning Repository.

Downloading ucimlrepo-0.0.6-py3-none-any.whl (8.0 kB)

X_df = fertility.data.features # Features dataframe
y_df = fertility.data.targets # Targets dataframe

Printing the metadata information of the fetched dataset.

Installing collected packages: ucimlrepo Successfully installed ucimlrepo-0.0.6

from ucimlrepo import fetch_ucirepo

fertility = fetch_ucirepo(id=244)

In [4]: # Importing Matplotlib library for data visualization, particularly for creating plots.

Installing the ucimlrepo package using pip to access datasets from the UCI Machine Learning Repository.

Importing fetch_ucirepo function from ucimlrepo to fetch datasets from the UCI Machine Learning Repository.

Extracting the features and targets data from the fetched dataset and storing them in pandas dataframes.

roc_curve, RocCurveDisplay, roc_auc_score, log_loss

confusion_matrix, ConfusionMatrixDisplay,

Submitted by: Prajwol Tiwari

In [1]: import numpy as np

import pandas as pd

In [2]: !pip install scikit-learn

In [3]: from sklearn.metrics import (

import seaborn as sns

Assignment:

Use this dataset:

In [5]: !pip install ucimlrepo

Collecting ucimlrepo

import matplotlib.pyplot as plt

https://archive.ics.uci.edu/dataset/244/fertility

fix and fit the code and Report the results

Assignemnt: Code for Logistic Regression & Naive Bayes

Importing NumPy and Pandas libraries for numerical computations and data manipulation, respectively.

Installing scikit-learn package using pip, a Python package manager, to make it available for use in the current environment.

Requirement already satisfied: numpy>=1.17.3 in c:\users\prajw\anaconda3\lib\site-packages (from scikit-learn) (1.26.4)
Requirement already satisfied: scipy>=1.3.2 in c:\users\prajw\anaconda3\lib\site-packages (from scikit-learn) (1.11.4)
Requirement already satisfied: joblib>=1.1.1 in c:\users\prajw\anaconda3\lib\site-packages (from scikit-learn) (1.2.0)

Requirement already satisfied: threadpoolctl>=2.0.0 in c:\users\prajw\anaconda3\lib\site-packages (from scikit-learn) (2.2.0)

Importing Seaborn library for statistical data visualization, providing a high-level interface for drawing attractive and informative

Requirement already satisfied: scikit-learn in c:\users\prajw\anaconda3\lib\site-packages (1.2.2)

Importing specific functions and classes from scikit-learn metrics module to use them for evaluating model performance.