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```
#importing required libraries
import pandas as pd
import numpy as np
import matplotlib.pyplot as plt
from matplotlib import pyplot
import seaborn as sns
from sklearn.preprocessing import OneHotEncoder
from sklearn.preprocessing import LabelEncoder
import re

from scipy.stats import norm
import statistics
import scipy.stats as stats
from matplotlib.pyplot import figure

from sklearn.feature_selection import SelectFromModel
from sklearn.linear_model import Lasso
from sklearn.preprocessing import MinMaxScaler
from sklearn.linear_model import SGDClassifier
from sklearn.model_selection import train_test_split
from sklearn.svm import SVC
from sklearn import svm
from mlxtend.plotting import plot_confusion_matrix
from sklearn import metrics
from sklearn.multiclass import OneVsRestClassifier
from sklearn.datasets import make_classification
from sklearn.metrics import confusion_matrix, accuracy_score, plot_confusion_matrix, classification_report
from sklearn.model_selection import train_test_split, cross_val_score

import plotly.graph_objs as go
import plotly.express as px
import plotly.offline as py

from sklearn import model_selection
from sklearn.ensemble import RandomForestClassifier
from sklearn.datasets import make_classification
from sklearn.model_selection import train_test_split
from sklearn.linear_model import LogisticRegression
from sklearn.ensemble import RandomForestClassifier
from sklearn.neural_network import MLPClassifier
from sklearn.model_selection import GridSearchCV
from sklearn.metrics import confusion_matrix
from sklearn.tree import export_graphviz
```