

```
In [58]: # importing necessary libraries for project to build algorithm from scratch

import pandas as pd
import numpy as np
import matplotlib.pyplot as plt
from sklearn.datasets import load_wine
from sklearn.model_selection import train_test_split, cross_val_score
from sklearn.preprocessing import StandardScaler
from collections import Counter
```

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In [59]: # load the wine dataset into a variable
```

```
wine = load_wine()
wine_data = wine.data
wine_target = wine.target
```

```
In [60]: wine_df = pd.DataFrame(wine_data, columns=wine.feature_names)
wine_df['quality'] = wine_target
```

```
In [61]: # Data preprocessing to handle missing values and scale the data
np.isnan(wine_data).any()
```

```
scaler = StandardScaler()
scaled_features = scaler.fit_transform(wine_data)
```

```
In [62]: def euclidean_distance(x1, x2):
        return np.sqrt(np.sum((x1 - x2) ** 2))
```

```
In [63]: # Implementation of the KNN (k nearest neighbours) algorithm
```

```
class KNN:
    def __init__(self, k=3):
        self.k = k

    def fit(self, X, y):
        self.X_train = X
        self.y_train = y

    def predict(self, X):
        y_pred = [self._predict(x) for x in X]
        return np.array(y_pred)

    def get_params(self, deep=True):
        return {"k": self.k}

    def set_params(self, **params):
        self.k = params.get("k", self.k)

    def _predict(self, x):
        distances = [euclidean_distance(x, x_train) for x_train in self.X_train]
        k_indices = np.argsort(distances)[:self.k]
        k_nearest_labels = [self.y_train[i] for i in k_indices]
        print(f"Distances: {distances}, K Nearest Labels: {k_nearest_labels}")
        most_common = Counter(k_nearest_labels).most_common(1)
        return most_common[0][0]
```

```
In [64]: # prep data for training and testing this code will split the data into train
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```
X = scaled_features
y = wine_target
```

```
X_train, X_test, y_train, y_test = train_test_split(scaled_features, y, test_size=0.2, random_state=42)
print(X_train.shape, y_train.shape)
```

```
(142, 13) (142,)
```

In [65]: *# Implementaton of cross-validation for model eval*

```
from sklearn.model_selection import KFold

kf = KFold(n_splits=5)
accuracies = []

for train_index, test_index in kf.split(X):
    X_train, X_test = X[train_index], X[test_index]
    y_train, y_test = y[train_index], y[test_index]

    knn = KNN(k=3)
    knn.fit(X_train, y_train)
    predictions = knn.predict(X_test)
    accuracies.append(accuracy_score(y_test, predictions))

print("Manual Cross-Validation Accuracy:", np.mean(accuracies))
```

Distances: [3.373441528671851, 3.7936223822897577, 3.8727164665802394, 2.6809202981921048, 1.879877204797264, 4.299768820170305, 2.704624115947255, 3.8831765271341565, 2.7535473537367934, 3.3801860081707824, 2.7221346119406276, 2.578817204921016, 2.615408638652882, 2.620939428589678, 3.979096143824973, 2.926648777232473, 2.697219176627853, 2.714995764068673, 2.0981359050457886, 2.418171508417132, 1.564057275778681, 3.1068077855592757, 2.7940377728191192, 7.992326298996219, 6.864269660995366, 6.448987652175551, 5.2887224716584464, 5.008834810664854, 6.026541489277149, 4.359730213759165, 5.086657418503422, 5.764737685836347, 5.6733322175072445, 5.266720014254106, 6.029465670682586, 5.1626578372566625, 5.57021225255191, 5.1250530801419565, 4.6387933778386286, 6.315794919922067, 5.697598353971403, 5.827856277826759, 4.597539965676134, 4.981062541915964, 5.901791675041348, 4.33299834279563, 6.421520203199345, 6.653598192296698, 4.921570714800028, 4.552838925208391, 6.175530305507214, 6.555646129754338, 6.126873572466365, 6.475583832169807, 6.364007896175228, 6.316424913153761, 6.619713564600754, 5.103037684937479, 5.304040659696532, 4.691395171148668, 5.841420832988137, 5.247605294646951, 4.704821174209944, 5.521231294052342, 5.319403265963082, 5.79601775727764, 4.9097103707679635, 6.238677492891098, 5.060484210529422, 6.4408275431833415, 5.544587467342803, 6.114463076908915, 5.354457786121178, 4.795165153738627, 6.09971737486263, 5.589552065157693, 6.372433027510927, 6.201217230207217, 5.916316593270158, 7.150053394344815, 5.881161028238054, 5.059217160840624, 6.968930272629577, 5.827613751637353, 4.920853674327999, 6.79894864201626, 6.256329349194024, 6.199263855872773, 6.0108866088357855, 5.549856586588765, 5.354630283829668, 7.060519235579504, 5.782440991201539, 6.57777383329106, 5.910258828249061, 6.435687066244419, 7.055492585491855, 6.548423996747548, 6.849643230394973, 6.987926228060835, 7.964892820481436, 8.022244693661992, 6.910589596434599, 6.393500643290528, 6.548631962870527, 6.200980350518088, 6.876389492241815, 6.423599613977766, 6.228894835854567, 6.422740161007204, 8.305978058963221, 7.391761523171228, 6.5727587435588175, 6.714773290447842, 6.5293096231691, 6.778927105070349, 6.326106857401167, 6.780907289630306, 6.732642370837262, 7.506491504869618, 6.742942145726734, 7.514895029037392, 6.669568693741193, 6.554184981859626, 7.172334643623881, 5.947140103624542, 6.495119104124296, 6.214673381653758, 6.792466131947702, 7.247602595029954, 6.320699567894302, 6.909157210488387, 6.0489262770504935, 6.621592580900693, 7.034649543076, 7.609047130255712, 6.360782871374365, 7.226416655642054, 6.296512701263164, 6.490941295140659, 6.078780909740053, 7.18442107269337], K Nearest Labels: [0, 0, 0]

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 Manual Cross-Validation Accuracy: 0.9158730158730158

In [66]: *# Training of my model and making of predictions*

```
knn = KNN(k=3)
knn.fit(X_train, y_train)
predictions = knn.predict(X_test)
```

Distances: [6.423599613977766, 5.552511993140562, 5.848451782428699, 7.074398185320633, 4.646121938519193, 6.210332211637667, 5.505582787452961, 5.3561636535469646, 5.537921270946161, 5.924172528874598, 6.381207001591936, 5.058851612332711, 5.250139348721837, 6.741592949382828, 7.498339084925541, 5.702150880550055, 5.676665111519022, 5.440260062587799, 7.041934274749576, 5.107076706372909, 6.211172808339841, 4.214405624599848, 5.408257636561284, 5.018609584785833, 4.969909625061884, 6.020574774160037, 5.069258498266709, 4.696454614433397, 5.295887637732474, 5.2191557661910695, 6.064749926847568, 6.061820025303617, 4.646325688934013, 5.871678054321935, 4.714327947323955, 5.026583903662477, 4.936976286302864, 4.537130619733794, 4.897614011944089, 5.737295704118886, 5.804182866214889, 3.665270407223678, 6.148263484428402, 3.3852937246724943, 5.37820784340399, 4.101100801821252, 5.26894734969778, 5.926306038465585, 5.084918565012777, 6.073171051468307, 6.86109276220161, 5.982781762350476, 6.591696698770034, 5.542352809557029, 5.464517224523076, 5.88711805989628, 5.825677842499567, 5.395017582517359, 6.486003319408363, 6.449963226889275, 4.712735036606155, 4.074861258791235, 4.365486045666243, 6.051342230795354, 4.662167603156951, 4.955417105938228, 6.423001095634594, 5.13704216263936, 4.351017208231231, 7.539991871349513, 4.17354328450229, 5.7770460768693646, 3.9371005023194634, 7.433712246456968, 6.00143052858155, 4.672873561400671, 5.342317155016555, 3.529748033602527, 6.467036377813678, 3.953433555699038, 5.6525781336984116, 4.625050787260064, 4.9445866384495245, 2.394046267986272, 5.7916231564834675, 4.883430509127575, 4.374599703055314, 5.233572754905534, 4.043472883525426, 4.859686662604258, 3.996526249993426, 4.2002106343992756, 3.917113211797638, 4.638407815240498, 5.319168951566671, 7.746280643025407, 5.625688331105266, 5.227186932081599, 6.157051127128946, 5.455329981041337, 5.153162785643109, 4.547467308435433, 4.027903649347503, 4.530555691126147, 4.61411369716414, 3.969745093530473, 4.383885009695766, 3.7486474246882464, 4.99087852115331, 6.054012245335487, 6.750774094254885, 4.020264354092918, 4.430532952120524, 5.125196858088389, 4.632103641139691, 6.415602064565145, 4.944034382391975, 4.55337649688559, 3.0138634108941416, 3.888574775355793, 5.122021866889504, 7.993155195529973, 3.9671855024003064, 3.892204720275645, 5.846547342972498, 4.464325702001579, 4.872651595649159, 5.0906409032546796, 4.609811453964345, 2.8453922742441113, 4.799024772062735, 3.345908003077838, 3.9228385212240293, 3.4564474227544184, 4.074379075250968, 3.438132627370557, 2.656814086848259, 2.8021525547783486, 1.9755511721134609, 2.7625181821755005, 2.8033979196235954, 2.9773448148745745, 2.6416606091404486], K Nearest Labels: [2, 1, 2]

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```
In [67]: # Eval of model's overall performance
from sklearn.metrics import accuracy_score

accuracy = accuracy_score(y_test, predictions)
print("Test Accuracy:", accuracy)
```

Test Accuracy: 0.9714285714285714

In [ ]: