ml-lab2

February 28, 2024

1 ML LAB Assignment-2

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1. Take two 3D coordinates from the user. Find out the distance between these points using following distance functions. x and y are vectors representing the coordinates of two points. Here, k=3

```
[1]: import math
     def euclidean_distance(x, y):
         return math.sqrt(sum([(a - b) ** 2 for a, b in zip(x, y)]))
     def minkowski_distance(x, y, p):
         return sum([abs(a - b) ** p for a, b in zip(x, y)]) ** (1/p)
     def manhattan_distance(x, y):
         return sum([abs(a - b) for a, b in zip(x, y)])
     def take_coordinates():
         coordinates = []
         for i in range(3):
             coordinate = []
             print(f"Enter the coordinates for point {i + 1}:")
             for j in range(3):
                 value = float(input(f"Enter the value for dimension {j + 1}: "))
                 coordinate.append(value)
             coordinates.append(coordinate)
         return coordinates
     def main():
         coordinates = take_coordinates()
         euclidean_dist = euclidean_distance(coordinates[0], coordinates[1])
         minkowski_dist = minkowski_distance(coordinates[0], coordinates[1], 3)
         manhattan_dist = manhattan_distance(coordinates[0], coordinates[1])
         print(f"Euclidean Distance: {euclidean_dist}")
```

```
print(f"Minkowski Distance: {minkowski_dist}")
         print(f"Manhattan Distance: {manhattan_dist}")
     if __name__ == "__main__":
         main()
    Enter the coordinates for point 1:
    Enter the coordinates for point 2:
    Enter the coordinates for point 3:
    Euclidean Distance: 5.744562646538029
    Minkowski Distance: 5.2048278633942004
    Manhattan Distance: 9.0
      2. Import the Iris dataset. Write a program to obtain the Euclidian Distance Matrix for all
         the data samples in the feature space. Distance metric is a 2D array, where the (i,j)th entry
         represents the distance between the ith and jth sample points in the feature space.
[2]: import numpy as np
     import pandas as pd
[3]: df=pd.read_csv("/Users/saikarthik/Desktop/ml algorithms from scratch /ML_Lab/

¬Iris.csv")
[4]: df.head()
[4]:
            SepalLengthCm SepalWidthCm PetalLengthCm PetalWidthCm
                                                                             Species
                      5.1
                                     3.5
                                                     1.4
                                                                   0.2 Iris-setosa
     0
         1
     1
         2
                      4.9
                                     3.0
                                                     1.4
                                                                   0.2 Iris-setosa
     2
         3
                      4.7
                                     3.2
                                                     1.3
                                                                   0.2 Iris-setosa
     3
                      4.6
                                     3.1
                                                     1.5
                                                                   0.2 Iris-setosa
         4
                      5.0
                                                     1.4
                                                                   0.2 Iris-setosa
         5
                                     3.6
[5]: def euclidean(x, y):
         return math.sqrt(sum([(a - b) ** 2 for a, b in zip(x, y)]))
[6]: from sklearn.datasets import load_iris
     import numpy as np
     iris = load iris()
     data = iris.data
     def euclidean_distance_matrix(data):
         n_samples = len(data)
         distance_matrix = np.zeros((n_samples, n_samples))
         for i in range(n samples):
             for j in range(n_samples):
                 distance_matrix[i][j] = euclidean(data[i], data[j])
```

return distance_matrix

```
distance_matrix = euclidean_distance_matrix(data)
print("Euclidean Distance Matrix:")
for i in range(len(distance_matrix)):
    for j in range(len(distance_matrix[0])):
        print(str(distance_matrix[i][j])+" ")
    print("\n")
```

Euclidean Distance Matrix:

- 0.0
- 0.5385164807134502
- 0.509901951359278
- 0.648074069840786
- 0.1414213562373093
- 0.6164414002968979
- 0.5196152422706632
- 0.17320508075688762
- 0.9219544457292882
- 0.4690415759823426
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- 0.3741657386773941
- 0.5916079783099616
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- 0.8831760866327848
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- 0.5477225575051664
- 0.09999999999998
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- 0.33166247903553986
- 0.4358898943540679
- 0.30000000000000016
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- 0.14142135623730995
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- 0.5385164807134504
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- 1.1224972160321822

```
1.1224972160321822
0.33166247903553997
1.3190905958272918
1.2569805089976536
0.9486832980505135
0.6557438524301997
0.6403124237432847
0.7681145747868608
0.0
```

3. Import the Iris dataset. Prepare a dataset considering samples belong to any two output classes. Draw the scatter plot for all the samples in the new dataset considering any two input attributes. Examine the scatter plot to find the equation of a line that can separate sample of two classes.

```
[7]: df.head()
 [7]:
             SepalLengthCm SepalWidthCm PetalLengthCm PetalWidthCm
                                                                            Species
                       5.1
                                     3.5
                                                     1.4
                                                                   0.2 Iris-setosa
      1
          2
                       4.9
                                     3.0
                                                     1.4
                                                                   0.2 Iris-setosa
      2
          3
                       4.7
                                     3.2
                                                                   0.2 Iris-setosa
                                                     1.3
      3
          4
                       4.6
                                     3.1
                                                     1.5
                                                                   0.2 Iris-setosa
                       5.0
                                                                   0.2 Iris-setosa
          5
                                     3.6
                                                     1.4
 [8]: import pandas as pd
      import numpy as np
      import matplotlib.pyplot as plt
      from sklearn.datasets import load_iris
 [9]: iris = load iris()
      iris_df = pd.DataFrame(data=np.c_[iris['data'], iris['target']],__
       ⇔columns=iris['feature names'] + ['target'])
[10]: target_names = {0: 'setosa', 1: 'versicolor'}
      iris_df['target_names'] = iris_df['target'].map(target_names)
[11]: | target_names = {0: 'setosa', 1: 'versicolor', 2: 'virginica'}
      iris_df['target_names'] = iris_df['target'].map(target_names)
[12]: class_1 = iris_df[iris_df['target_names'] == 'setosa']
      class_2 = iris_df[iris_df['target_names'] == 'versicolor']
[13]: attribute1 = 'sepal length (cm)'
      attribute2 = 'sepal width (cm)'
```

```
plt.figure(figsize=(10, 6))
  plt.scatter(class_1[attribute1], class_1[attribute2], label='Setosa')
  plt.scatter(class_2[attribute1], class_2[attribute2], label='Versicolor')
  plt.xlabel(attribute1)
  plt.ylabel(attribute2)
  plt.title(f'Scatter plot of {attribute1} vs {attribute2}')
  plt.legend()
  plt.grid(True)
  plt.show()
```

