jupyter Min-Max normalization Last Checkpoint: 28 minutes ago (autosaved)

Logout

File Edit View Insert Cell Kernel Widgets Help

Trusted | Python 3 (ipykernel)

Run Code

Import the necessary libraries

In [ ]:
```
import numpy as np
```

Define the Min-Max normalization function

In [ ]:
```
def min_max_normalize(data):
    min_val = np.min(data)
    max_val = np.max(data)
    norm_data = (data - min_val) / (max_val - min_val)
    return norm_data
```

Generate some sample data

In [3]:
```
data = np.random.randint(0, 100, size=(10, 5))
print("Original data:\n", data)
```

```
Original data:
 [[67 41 21 48 34]
 [90 37  7 36 96]
 [39 36 73 99 64]
 [12 67 51 57 67]
 [61 46 23  1 25]
 [76 31 15 27 90]
 [ 1 65 67 20 56]
 [74 17 67 72 49]
 [58  0 95 51 57]
 [36 38  0 49 42]]
```

Apply Min-Max normalization to the data

In [2]:
```
norm_data = min_max_normalize(data)
print("Normalized data:\n", norm_data)
```

```
Normalized data:
 [[0.1875     0.71875    0.14583333 0.48958333 0.22916667]
 [0.21875    0.90625    0.125      0.29166667 0.04166667]
 [0.95833333 0.61458333 0.53125    0.15625    0.57291667]
 [0.86458333 0.6875     0.20833333 0.48958333 0.70833333]
 [0.64583333 0.55208333 0.59375    0.44791667 0.65625    ]
 [0.07291667 0.60416667 0.80208333 0.16666667 0.83333333]
 [0.01041667 0.92708333 0.36458333 0.58333333 0.02083333]
 [0.01041667 0.03125    0.79166667 0.17708333 0.         ]
 [0.94791667 0.32291667 0.08333333 0.03125    0.1875     ]
 [0.55208333 0.19791667 0.625      0.86458333 1.        ]]
```