

DistanceBase

```
classDiagram
    class DistanceBase
    class EuclideanDistance
    class SumOfSquaredDifference
    EuclideanDistance --|> DistanceBase
    SumOfSquaredDifference --|> DistanceBase
```

A UML class diagram illustrating inheritance. At the top is a box labeled 'DistanceBase'. Below it are two boxes: 'EuclideanDistance' on the left and 'SumOfSquaredDifference' on the right. A horizontal line connects the two bottom boxes, with a vertical line extending upwards from its center to the bottom of the 'DistanceBase' box. An arrow points from this vertical line up to the 'DistanceBase' box, indicating that both 'EuclideanDistance' and 'SumOfSquaredDifference' inherit from 'DistanceBase'.

EuclideanDistance

SumOfSquaredDifference