

AbstractOptimizationMethod

```
classDiagram
    class AbstractOptimizationMethod
    class NelderMeadOptimization
    class RandomSearch
    AbstractOptimizationMethod <|-- NelderMeadOptimization
    AbstractOptimizationMethod <|-- RandomSearch
```

A UML class diagram illustrating inheritance. At the top is a box labeled 'AbstractOptimizationMethod'. Below it are two boxes: 'NelderMeadOptimization' on the left and 'RandomSearch' 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 'AbstractOptimizationMethod' box, ending in an arrowhead. This indicates that both 'NelderMeadOptimization' and 'RandomSearch' inherit from 'AbstractOptimizationMethod'.

NelderMeadOptimization

RandomSearch