Statastic

extractColumn

Extracts a specific column from the given dataset based on the column.

Parameters

extractColumn(
  data: `array`,
  colId: `int`
) -> `array`

data `array`

The dataset.

colId `int`

The identifier for the column to be extracted.

tofloatArray

Converts an array's elements to floating point numbers.

Parameters

tofloatArray(arr: `array`) -> `array`

arr `array`

Array with elements to be converted.

toIntArray

Converts an array's elements to integers.

Parameters

toIntArray(arr: `array`) -> `array`

arr `array`

Array with elements to be converted.

isInt

Determines if a given value is an integer.

Parameters

isInt(val: `mixed`) -> `boolean`

val `mixed`

The value to be checked.

lerp
Calculates a value between two numbers at a specific fraction.

Parameters

```
lerp(
  lower: float,
  upper: float,
  fraction: float
) -> float
```

lower `float`

The lower number.

upper `float`

The upper number.

fraction `float`

The fraction between the two numbers.

arrayAvg
Calculates the average of an array's elements.

Parameters

```
arrayAvg(arr: array ) -> float
```

arr `array`

Array of numbers.

avg
Calculates the average of a specific column in a dataset.

Parameters

```
avg(
  data: array,
  colId: int
) -> float
```

data `array`

The dataset.

colId `int`

The identifier for the column.

arrayMedian
Calculates the median of an array's elements.

Parameters

arrayMedian(arr: `array`) -> `float`

arr `array`

Array of numbers.

median
Calculates the median of a specific column in a dataset.

Parameters

median(
  data: `array`,
  colId: `int`
) -> `float`

data `array`

The dataset.

colId `int`

The identifier for the column.

arrayIntMode
Calculates the mode of an integer array.

Parameters

arrayIntMode(arr: `array`) -> `array`

arr `array`

Array of integers.

mode
Calculates the mode of a specific column in a dataset.

Parameters

```
mode(
  data: array,
  colId: int
) -> array
```

data `array`

The dataset.

colId `int`

The identifier for the column.

arrayVar
Calculates the variance of an array's elements.

Parameters

```
arrayVar(arr: array) -> float
```

arr `array`

Array of numbers.

var
Calculates the variance of a specific column in a dataset.

Parameters

```
var(
  data: array,
  colId: int
) -> float
```

data `array`

The dataset.

colId `int`

The identifier for the column.

arrayStd
Calculates the standard deviation of an array's elements.

Parameters

arrayStd(arr: `array`) -> `float`

arr `array`

Array of numbers.

std
Calculates the standard deviation of a specific column in a dataset.

Parameters

std(
  data: `array`,
  colId: `int`
) -> `float`

data `array`

The dataset.

colId `int`

The identifier for the column.

arrayPercentile
Calculates a specific percentile of an array's elements.

Parameters

arrayPercentile(
  arr: `array`,
  p: `float`
) -> `float`

arr `array`

Array of numbers.

p `float`

The desired percentile (between 0 and 1).

percentile
Calculates a specific percentile of a column in a dataset.

Parameters

```
percentile(
  data: array,
  colId: int,
  p: float
) -> float
```

data `array`

The dataset.

colId `int`

The identifier for the column.

p `float`

The desired percentile (between 0 and 1).

arrayStats
Computes a set of statistical measures for an array.

Parameters

```
arrayStats(arr: array) -> dictionary
```

arr `array`

Array of numbers.

stats
Computes a set of statistical measures for a specific column in a dataset.

Parameters

```
stats(
  data: array,
  colId: int
) -> dictionary
```

data `array`

The dataset.

colId `int`

The identifier for the column.