ML_Core

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Name	ML_Core
Version	3.1.0
Description	Common definitions for Machine Learning
License	SeeLICENSE.TXT
Copyright	Copyright (C) 2017 HPCC Systems
Authors	HPCCSystems
Platform	6.2.0

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$\begin{array}{c} {\rm ML_Core/} \\ {\bf AppendID} \end{array}$

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DESCRIPTIONS

MACRO AppendID

AppendID	
(dIn,idfield,dOut)	

No Documentation Found

PARAMETER din || INTEGER8 — No Doc

PARAMETER dout || INTEGER8 — No Doc

RETURN —

$\frac{\mathrm{ML_Core}/}{\mathbf{AppendSeqID}}$

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DESCRIPTIONS

MACRO AppendSeqID

AppendSeqID

(dIn,idfield,dOut)

No Documentation Found

PARAMETER din || INTEGER8 — No Doc

PARAMETER dout || INTEGER8 — No Doc

PARAMETER idfield ||| INTEGER8 — No Doc

RETURN —

$\frac{\mathrm{ML_Core}}{Config}$

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DESCRIPTIONS

MODULE Config

Config

No Documentation Found

Children

1. MaxLookup: No Documentation Found

2. Discrete: No Documentation Found

3. Rounding Error : No Documentation Found

ATTRIBUTE MaxLookup

Config \

MaxLookup

No Documentation Found

RETURN INTEGER8 —

ATTRIBUTE Discrete

Co	onfig \
	Discrete
No	Documentation Found
R	ETURN INTEGER8 —
A	TTRIBUTE RoundingError
Co	onfig \
	RoundingError
No	Documentation Found
R	ETURN REAL8 —

ML_Core/ Constants

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DESCRIPTIONS

MODULE Constants

Constants

Useful constants

Children

- 1. Pi: Constant PI
- 2. Root_2 : Constant square root of 2

ATTRIBUTE Pi

Constants \setminus

Pi

Constant PI

RETURN REAL8 —

ATTRIBUTE Root_2

Constants \

Root_2

Constant square root of 2

RETURN REAL8 —

ML_Core/

FieldAggregates

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IMPORTS

ML_Core | ML_Core.Types | ML_Core.Utils | std.system.ThorLib |

DESCRIPTIONS

MODULE FieldAggregates

FieldAggregates

(DATASET(Types.NumericField) d)

No Documentation Found

PARAMETER $\underline{\mathbf{d}}$ ||| TABLE (NumericField) — No Doc

Children

- 1. Simple: No Documentation Found
- 2. SimpleRanked: No Documentation Found
- 3. Medians: No Documentation Found
- 4. MinMedNext: No Documentation Found
- 5. Buckets: No Documentation Found
- 6. BucketRanges: No Documentation Found

- 7. Modes: No Documentation Found
- 8. Cardinality: No Documentation Found
- 9. RankedInput: No Documentation Found
- 10. NTiles: No Documentation Found
- 11. NTileRanges: No Documentation Found

ATTRIBUTE Simple

FieldAggregates \

Simple

No Documentation Found

RETURN TABLE ({ UNSIGNED2 wi , UNSIGNED4 number , REAL8 minval , REAL8 maxval , REAL8 sumval , REAL8 countval , REAL8 mean , REAL8 var , REAL8 sd }) —

ATTRIBUTE SimpleRanked

FieldAggregates \

SimpleRanked

No Documentation Found

RETURN TABLE ({ UNSIGNED2 wi , UNSIGNED8 id , UNSIGNED4 number , REAL8 value , UNSIGNED8 Pos }) —

ATTRIBUTE Medians

FieldAggregates \

Medians

No Documentation Found

RETURN TABLE ({ UNSIGNED2 wi , UNSIGNED4 number , REAL8 median }) -

ATTRIBUTE MinMedNext

FieldAggregates \

MinMedNext

No Documentation Found

RETURN TABLE ({ UNSIGNED2 wi , UNSIGNED4 number , REAL8 median , REAL8 nextval , REAL8 minval , REAL8 maxval , REAL8 sumval , REAL8 countval , REAL8 mean , REAL8 var , REAL8 sd }) —

FUNCTION Buckets

FieldAggregates \

Buckets

(Types.t_Discrete n)

No Documentation Found

PARAMETER <u>n</u> ||| INTEGER4 — No Doc

RETURN TABLE ({ UNSIGNED2 wi , UNSIGNED8 id , UNSIGNED4 number , REAL8 value , UNSIGNED8 Pos , INTEGER4 bucket }) —

FUNCTION BucketRanges

FieldAggregates \

BucketRanges

(Types.t_Discrete n)

No Documentation Found

PARAMETER <u>n</u> ||| INTEGER4 — No Doc

RETURN TABLE ({ UNSIGNED2 wi , UNSIGNED4 number , INTEGER4 bucket , REAL8 Min , REAL8 Max , UNSIGNED8 cnt }) —

ATTRIBUTE Modes

FieldAggregates \

Modes

No Documentation Found

RETURN TABLE ({ UNSIGNED2 wi , UNSIGNED4 number , REAL8 mode , UNSIGNED8 cnt }) —

ATTRIBUTE Cardinality

FieldAggregates \

Cardinality

No Documentation Found

RETURN TABLE ({ UNSIGNED2 wi , UNSIGNED4 number , UNSIGNED8 cardinality }) —

ATTRIBUTE RankedInput

FieldAggregates \

RankedInput

No Documentation Found

RETURN TABLE ({ UNSIGNED2 wi , UNSIGNED8 id , UNSIGNED4 number , REAL8 value , REAL8 Pos }) —

FUNCTION NTiles

 $Field Aggregates \setminus$

NTiles

(Types.t_Discrete n)

No Documentation Found

PARAMETER <u>n</u> ||| INTEGER4 — No Doc

RETURN TABLE ({ UNSIGNED2 wi , UNSIGNED8 id , UNSIGNED4 number , REAL8 value , REAL8 Pos , INTEGER4 ntile }) —

FUNCTION NTileRanges

FieldAggregates \

NTileRanges
(Types.t_Discrete n)

No Documentation Found

PARAMETER <u>n</u> ||| INTEGER4 — No Doc

RETURN TABLE ({ UNSIGNED2 wi , UNSIGNED4 number , INTEGER4 ntile , REAL8 Min , REAL8 Max , UNSIGNED8 cnt }) —

$\frac{\text{ML_Core}/}{\textbf{FromField}}$

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DESCRIPTIONS

MACRO FromField

 ${\bf From Field}$

(dIn,10ut,dOut,dMap=")

No Documentation Found

PARAMETER din || INTEGER8 — No Doc

PARAMETER dout || INTEGER8 — No Doc

PARAMETER dmap || INTEGER8 — No Doc

PARAMETER <u>lout</u> ||| INTEGER8 — No Doc

RETURN —

ML_Core/

Generate

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IMPORTS

ML_Core | ML_Core.Types |

DESCRIPTIONS

MODULE Generate

Generate

No Documentation Found

Children

1. tp_Method: No Documentation Found

2. MethodName: No Documentation Found

3. ToPoly: No Documentation Found

ATTRIBUTE tp_Method

Generate \

 tp_Method

No Documentation Found

RETURN UNSIGNED1 —

FUNCTION MethodName

Generate \

MethodName

(tp_Method x)

No Documentation Found

PARAMETER <u>x</u> ||| UNSIGNED1 — No Doc

RETURN STRING7 —

FUNCTION ToPoly

Generate \

ToPoly

(DATASET(Types.NumericField) seedCol, UNSIGNED maxN=6)

No Documentation Found

PARAMETER maxn || UNSIGNED8 — No Doc

PARAMETER seedcol || TABLE (NumericField) — No Doc

RETURN TABLE ({ UNSIGNED2 wi , UNSIGNED8 id , UNSIGNED4 number , REAL8 value }) —

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ML_Core/ ToField

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DESCRIPTIONS

MACRO ToField

ToField

(dIn,dOut,idfield=", wifield=", wivalue=",datafields=")

No Documentation Found

PARAMETER wifield || INTEGER8 — No Doc

PARAMETER dout || INTEGER8 — No Doc

PARAMETER idfield || INTEGER8 — No Doc

PARAMETER din || INTEGER8 — No Doc

PARAMETER datafields || INTEGER8 — No Doc

PARAMETER wivalue || INTEGER8 — No Doc

RETURN —

$\frac{\mathrm{ML_Core}}{Types}$

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DESCRIPTIONS

MODULE Types

Types

No Documentation Found

Children

- 1. t RecordID: No Documentation Found
- 2. t_FieldNumber: No Documentation Found
- 3. t FieldReal: No Documentation Found
- 4. t_FieldSign: No Documentation Found
- 5. t_Discrete: No Documentation Found
- 6. t_Item: No Documentation Found
- 7. t_Count : No Documentation Found
- 8. t_Work_Item: No Documentation Found
- 9. AnyField: No Documentation Found
- 10. NumericField: No Documentation Found
- 11. DiscreteField: No Documentation Found
- 12. Layout_Model: No Documentation Found
- 13. Classify Result: No Documentation Found
- 14. l result : No Documentation Found

- 15. Confusion_Detail: No Documentation Found
- 16. ItemElement: No Documentation Found
- 17. t_node: No Documentation Found
- 18. t_level: No Documentation Found
- 19. NodeID: No Documentation Found

ATTRIBUTE t_RecordID

Types \

t RecordID

No Documentation Found

RETURN UNSIGNED8 —

ATTRIBUTE t_FieldNumber

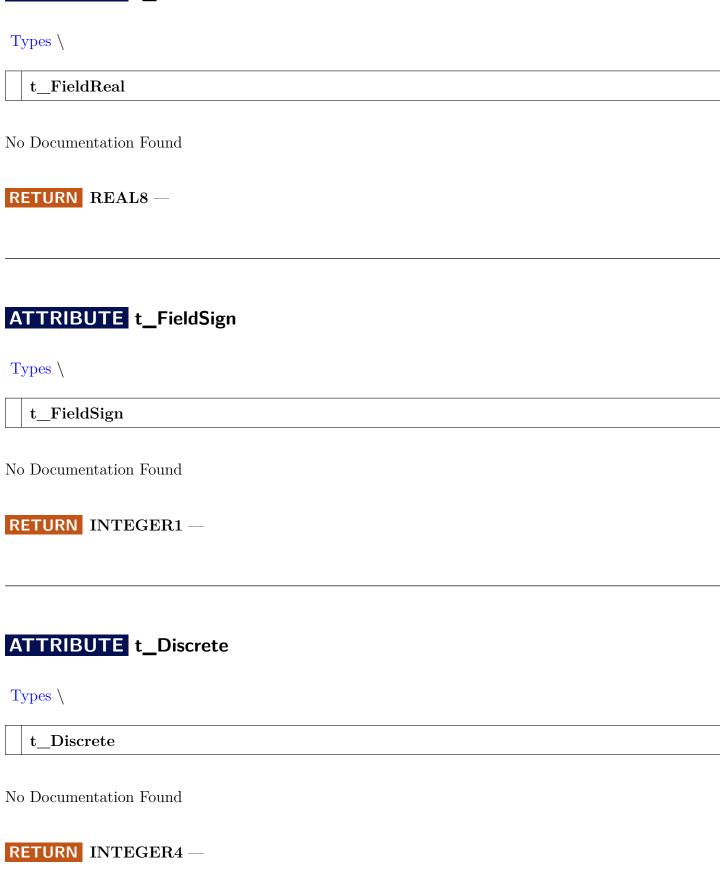
Types \

t FieldNumber

No Documentation Found

RETURN UNSIGNED4 —

ATTRIBUTE t_FieldReal



ATTRIBUTE t_Item Types \ t Item No Documentation Found RETURN UNSIGNED4 — ATTRIBUTE t_Count Types \ t_Count No Documentation Found RETURN UNSIGNED8 — ATTRIBUTE t_Work_Item Types \ t_Work_Item

RETURN UNSIGNED2 —

No Documentation Found

RECORD AnyField

Types \

AnyField

No Documentation Found

FIELD wi || UNSIGNED2 — No Doc

FIELD id || UNSIGNED8 — No Doc

FIELD <u>number</u> ||| UNSIGNED4 — No Doc

RECORD NumericField

Types \

NumericField

No Documentation Found

FIELD id || UNSIGNED8 — No Doc

FIELD <u>number</u> ||| UNSIGNED4 — No Doc

FIELD <u>value</u> ||| REAL8 — No Doc

RECORD DiscreteField

Types \

DiscreteField

No Documentation Found

```
FIELD wi || UNSIGNED2 — No Doc
```

RECORD Layout_Model

Types \

Layout_Model

No Documentation Found

FIELD wi || UNSIGNED2 — No Doc

FIELD id || UNSIGNED8 — No Doc

FIELD <u>number</u> ||| UNSIGNED4 — No Doc

FIELD <u>value</u> ||| REAL8 — No Doc

RECORD Classify_Result

Types \

 $Classify_Result$

No Documentation Found

FIELD wi || UNSIGNED2 — No Doc

FIELD conf ||| REAL8 — No Doc

FIELD id || UNSIGNED8 — No Doc

FIELD <u>number</u> ||| UNSIGNED4 — No Doc

RECORD I_result

Types \

l result

No Documentation Found

FIELD wi || UNSIGNED2 — No Doc

FIELD conf ||| REAL8 — No Doc

FIELD id || UNSIGNED8 — No Doc

FIELD <u>number</u> ||| UNSIGNED4 — No Doc

FIELD <u>value</u> || INTEGER4 — No Doc

RECORD Confusion_Detail

Types \

Confusion Detail

No Documentation Found

FIELD <u>correct</u> ||| BOOLEAN — No Doc

FIELD predict_class ||| INTEGER4 — No Doc

FIELD classifier || UNSIGNED4 — No Doc

FIELD wi || UNSIGNED2 — No Doc

FIELD occurs || UNSIGNED4 — No Doc

FIELD <u>actual_class</u> ||| INTEGER4 — No Doc

RECORD ItemElement

Types \

ItemElement

No Documentation Found

FIELD wi || UNSIGNED2 — No Doc

FIELD id || UNSIGNED8 — No Doc

FIELD <u>value</u> ||| UNSIGNED4 — No Doc

ATTRIBUTE t_node

Types \

 t_node

No Documentation Found

RETURN INTEGER4 —

ATTRIBUTE t_level

Types \

 t_{level}

No Documentation Found

RETURN UNSIGNED2 —

RECORD NodelD

Types \

NodeID

No Documentation Found

FIELD <u>wi</u> ||| UNSIGNED2 — No Doc

FIELD node_id ||| INTEGER4 — No Doc