ML_Core

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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AppendID

DESCRIPTIONS

MACRO **AppendID**

AppendID
`(dIn,idfield,dOut)`

No Documentation Found

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

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

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

RETURN —

AppendSeqID

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DESCRIPTIONS

MACRO **AppendSeqID**

	AppendSeqID
	`(dIn,idfield,dOut)`

No Documentation Found

PARAMETER **din** ||| INTEGER8 — No Doc

PARAMETER **idfield** ||| INTEGER8 — No Doc

PARAMETER **dout** ||| INTEGER8 — No Doc

RETURN —

Config

DESCRIPTIONS

MODULE Config

Config

No Documentation Found

Children

1. MaxLookup : No Documentation Found

2. Discrete : No Documentation Found

3. RoundingError : No Documentation Found

ATTRIBUTE MaxLookup

Config \

MaxLookup

No Documentation Found

RETURN **INTEGER8** —

ATTRIBUTE Discrete

Config \

	Discrete

No Documentation Found

RETURN **INTEGER8** —

ATTRIBUTE RoundingError

Config \

	RoundingError

No Documentation Found

RETURN **REAL8** —

Constants

DESCRIPTIONS

MODULE Constants

	Constants

Useful constants

Children

1. Pi : Constant PI

2. Root_2 : Constant square root of 2

ATTRIBUTE Pi

Constants \

	Pi

Constant PI

RETURN **REAL8** —

ATTRIBUTE Root_2

Root_2

Constant square root of 2

RETURN **REAL8** —

FieldAggregates

IMPORTS

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

DESCRIPTIONS

MODULE FieldAggregates

FieldAggregates
`(DATASET(Types.NumericField) d)`

No Documentation Found

PARAMETER **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 **n** ||| 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 **n** ||| 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**

FieldAggregates \

	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

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 }) —**

FromField

DESCRIPTIONS

MACRO **FromField**

	FromField
	`(dIn,lOut,dOut,dMap=")`

No Documentation Found

PARAMETER **dmap** ||| INTEGER8 — No Doc

PARAMETER **din** ||| INTEGER8 — No Doc

PARAMETER **dout** ||| INTEGER8 — No Doc

PARAMETER **lout** ||| INTEGER8 — No Doc

RETURN —

Generate

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 **x** ||| 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 })** —

ToField

DESCRIPTIONS

MACRO **ToField**

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

No Documentation Found

PARAMETER **datafields** ||| INTEGER8 — No Doc

PARAMETER **wivalue** ||| INTEGER8 — No Doc

PARAMETER **wifield** ||| INTEGER8 — No Doc

PARAMETER **din** ||| INTEGER8 — No Doc

PARAMETER **idfield** ||| INTEGER8 — No Doc

PARAMETER **dout** ||| INTEGER8 — No Doc

RETURN —

Types

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

Types \

t_FieldReal

No Documentation Found

RETURN REAL8 —

ATTRIBUTE t_FieldSign

Types \

t_FieldSign

No Documentation Found

RETURN INTEGER1 —

ATTRIBUTE t_Discrete

Types \

t_Discrete

No Documentation Found

RETURN INTEGER4 —

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

No Documentation Found

RETURN UNSIGNED2 —

RECORD **AnyField**

	AnyField

No Documentation Found

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

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

FIELD <u>id</u> ||| UNSIGNED8 — No Doc

RECORD **NumericField**

	NumericField

No Documentation Found

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

FIELD <u>value</u> ||| REAL8 — No Doc

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

FIELD <u>id</u> ||| UNSIGNED8 — No Doc

RECORD **DiscreteField**

	DiscreteField

No Documentation Found

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

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

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

FIELD <u>id</u> ||| UNSIGNED8 — No Doc

RECORD Layout_Model

Types \

	Layout__Model

No Documentation Found

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

FIELD <u>value</u> ||| REAL8 — No Doc

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

FIELD <u>id</u> ||| UNSIGNED8 — No Doc

RECORD Classify_Result

Types \

	Classify__Result

No Documentation Found

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

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

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

FIELD <u>conf</u> ||| REAL8 — No Doc

FIELD id ||| UNSIGNED8 — No Doc

RECORD l_result

Types \

	l_result

No Documentation Found

FIELD number ||| UNSIGNED4 — No Doc

FIELD value ||| INTEGER4 — No Doc

FIELD wi ||| UNSIGNED2 — No Doc

FIELD conf ||| REAL8 — No Doc

FIELD id ||| UNSIGNED8 — No Doc

RECORD Confusion_Detail

Types \

	Confusion_Detail

No Documentation Found

FIELD correct ||| BOOLEAN — No Doc

FIELD wi ||| UNSIGNED2 — No Doc

FIELD actual_class ||| INTEGER4 — No Doc

FIELD occurs ||| UNSIGNED4 — No Doc

FIELD predict_class ||| INTEGER4 — No Doc

FIELD classifier ||| UNSIGNED4 — No Doc

RECORD ItemElement

	ItemElement

No Documentation Found

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

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

FIELD <u>id</u> ||| UNSIGNED8 — No Doc

ATTRIBUTE t_node

	t_node

No Documentation Found

RETURN INTEGER4 —

ATTRIBUTE t_level

	t_level

No Documentation Found

RETURN UNSIGNED2 —

RECORD NodeID

NodeID

No Documentation Found

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

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

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