

ML_Core

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

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ML_Core/ AppendID

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DESCRIPTIONS

MACRO AppendID

	AppendID
	(dIn,idfield,dOut)

No Documentation Found

PARAMETER dout ||| INTEGER8 — No Doc

PARAMETER idfield ||| INTEGER8 — No Doc

PARAMETER din ||| INTEGER8 — No Doc

RETURN —

ML_Core/ AppendSeqID

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DESCRIPTIONS

MACRO AppendSeqID

	AppendSeqID
(dIn,idfield,dOut)	

No Documentation Found

PARAMETER dout ||| INTEGER8 — No Doc

PARAMETER idfield ||| INTEGER8 — No Doc

PARAMETER din ||| INTEGER8 — No Doc

RETURN —

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. [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 —

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](#) \

	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 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 n ||| 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 n ||| INTEGER4 — No Doc

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

ML_Core/ FromField

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DESCRIPTIONS

MACRO FromField

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

No Documentation Found

PARAMETER dmap ||| INTEGER8 — No Doc

PARAMETER lout ||| INTEGER8 — No Doc

PARAMETER dout ||| INTEGER8 — No Doc

PARAMETER din ||| INTEGER8 — No Doc

RETURN —

ML_Core/ Generate

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IMPORTS

ML_Core | ML_Core.Types |

DESCRIPTIONS

MODULE Generate

	Generate
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No Documentation Found

Children

1. [tp_Method](#) : No Documentation Found
2. [MethodName](#) : No Documentation Found
3. [ToPoly](#) : No Documentation Found

ATTRIBUTE tp_Method

[Generate](#) \

	<code>tp_Method</code>
--	------------------------

No Documentation Found

RETURN UNSIGNED1 —

FUNCTION `MethodName`

[Generate \](#)

	<code>MethodName</code>
	<code>(tp_Method x)</code>

No Documentation Found

PARAMETER `x` ||| UNSIGNED1 — No Doc

RETURN STRING7 —

FUNCTION `ToPoly`

[Generate \](#)

	<code>ToPoly</code>
	<code>(DATASET(Types.NumericField) seedCol, UNSIGNED maxN=6)</code>

No Documentation Found

PARAMETER `seedcol` ||| TABLE (NumericField) — No Doc

PARAMETER `maxn` ||| UNSIGNED8 — No Doc

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

ML_Core/ ToField

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DESCRIPTIONS

MACRO ToField

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

No Documentation Found

PARAMETER datafields ||| INTEGER8 — No Doc

PARAMETER wivalue ||| INTEGER8 — No Doc

PARAMETER idfield ||| INTEGER8 — No Doc

PARAMETER dout ||| INTEGER8 — No Doc

PARAMETER wifield ||| INTEGER8 — No Doc

PARAMETER din ||| INTEGER8 — No Doc

RETURN —

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DESCRIPTIONS

MODULE Types

	Types
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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
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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

Types \

	AnyField
--	----------

No Documentation Found

FIELD id ||| UNSIGNED8 — No Doc

FIELD wi ||| UNSIGNED2 — No Doc

FIELD number ||| UNSIGNED4 — No Doc

RECORD NumericField

Types \

	NumericField
--	--------------

No Documentation Found

FIELD id ||| UNSIGNED8 — No Doc

FIELD value ||| REAL8 — No Doc

FIELD wi ||| UNSIGNED2 — No Doc

FIELD number ||| UNSIGNED4 — No Doc

RECORD DiscreteField

Types \

	DiscreteField
--	---------------

No Documentation Found

- FIELD** id ||| UNSIGNED8 — No Doc
 - FIELD** value ||| INTEGER4 — No Doc
 - FIELD** wi ||| UNSIGNED2 — No Doc
 - FIELD** number ||| UNSIGNED4 — No Doc
-

RECORD Layout_Model

Types \

	Layout_Model
--	--------------

No Documentation Found

- FIELD** id ||| UNSIGNED8 — No Doc
 - FIELD** value ||| REAL8 — No Doc
 - FIELD** wi ||| UNSIGNED2 — No Doc
 - FIELD** number ||| UNSIGNED4 — No Doc
-

RECORD Classify_Result

Types \

	Classify_Result
--	-----------------

No Documentation Found

- FIELD** id ||| UNSIGNED8 — No Doc
- FIELD** value ||| INTEGER4 — No Doc
- FIELD** conf ||| REAL8 — No Doc
- FIELD** wi ||| UNSIGNED2 — No Doc

FIELD number ||| UNSIGNED4 — No Doc

RECORD l_result

Types \

	l_result
--	----------

No Documentation Found

FIELD id ||| UNSIGNED8 — No Doc

FIELD value ||| INTEGER4 — No Doc

FIELD conf ||| REAL8 — No Doc

FIELD wi ||| UNSIGNED2 — No Doc

FIELD number ||| UNSIGNED4 — No Doc

RECORD Confusion_Detail

Types \

	Confusion_Detail
--	------------------

No Documentation Found

FIELD predict__class ||| INTEGER4 — No Doc

FIELD wi ||| UNSIGNED2 — No Doc

FIELD occurs ||| UNSIGNED4 — No Doc

FIELD actual__class ||| INTEGER4 — No Doc

FIELD classifier ||| UNSIGNED4 — No Doc

FIELD correct ||| BOOLEAN — No Doc

RECORD ItemElement

[Types](#) \

	ItemElement
--	-------------

No Documentation Found

FIELD id ||| UNSIGNED8 — No Doc

FIELD value ||| UNSIGNED4 — No Doc

FIELD wi ||| UNSIGNED2 — 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 NodeID

Types \

	NodeID
--	--------

No Documentation Found

FIELD node_id ||| INTEGER4 — No Doc

FIELD level ||| UNSIGNED2 — No Doc

FIELD wi ||| UNSIGNED2 — No Doc
