

# ML\_Core

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Name	ML_Core
Version	3.1.0
Description	Common definitions for Machine Learning
License	<a href="#">See LICENSE.TXT</a>
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)

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# ML\_Core/ AppendSeqID

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## DESCRIPTIONS

### **MACRO** AppendSeqID

	AppendSeqID
(dIn,idfield,dOut)	

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# ML\_Core/ Config

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## DESCRIPTIONS

### **MODULE** Config

	Config
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#### Children

1. [MaxLookup](#)
2. [Discrete](#)
3. [RoundingError](#)

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### **ATTRIBUTE** MaxLookup

[Config](#) \

	MaxLookup
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### **ATTRIBUTE** Discrete

[Config](#) \

	Discrete
--	----------

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**ATTRIBUTE** RoundingError

Config \

	RoundingError
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# ML\_Core/ Constants

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## DESCRIPTIONS

### **MODULE** Constants

	Constants
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Useful constants

#### Children

1. [Pi](#) : Constant PI
2. [Root\\_2](#) : Constant square root of 2

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### **ATTRIBUTE** Pi

[Constants](#) \

	Pi
--	----

Constant PI

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## ATTRIBUTE Root\_2

[Constants \](#)

	Root_2
--	--------

Constant square root of 2

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# 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)	

### Children

1. [Simple](#)
2. [SimpleRanked](#)
3. [Medians](#)
4. [MinMedNext](#)
5. [Buckets](#)
6. [BucketRanges](#)
7. [Modes](#)
8. [Cardinality](#)
9. [RankedInput](#)



- 10. [NTiles](#)
- 11. [NTileRanges](#)

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**ATTRIBUTE** Simple

[FieldAggregates](#) \

	Simple
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**ATTRIBUTE** SimpleRanked

[FieldAggregates](#) \

	SimpleRanked
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**ATTRIBUTE** Medians

[FieldAggregates](#) \

	Medians
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**ATTRIBUTE** MinMedNext

[FieldAggregates](#) \

	MinMedNext
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## FUNCTION Buckets

[FieldAggregates](#) \

	<b>Buckets</b>
(Types.t_Discrete n)	

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## FUNCTION BucketRanges

[FieldAggregates](#) \

	<b>BucketRanges</b>
(Types.t_Discrete n)	

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## ATTRIBUTE Modes

[FieldAggregates](#) \

	<b>Modes</b>
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## ATTRIBUTE Cardinality

[FieldAggregates](#) \

	<b>Cardinality</b>
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## ATTRIBUTE RankedInput

[FieldAggregates](#) \

	RankedInput
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## FUNCTION NTiles

[FieldAggregates](#) \

	NTiles
(Types.t_Discrete n)	

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## FUNCTION NTileRanges

[FieldAggregates](#) \

	NTileRanges
(Types.t_Discrete n)	

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# ML\_Core/ FromField

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## DESCRIPTIONS

### **MACRO** FromField

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

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# ML\_Core/ Generate

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## IMPORTS

ML\_Core | ML\_Core.Types |

## DESCRIPTIONS

### **MODULE** Generate

	Generate
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#### Children

1. [tp\\_Method](#)
2. [MethodName](#)
3. [ToPoly](#)

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### **ATTRIBUTE** tp\_Method

[Generate](#) \

	tp_Method
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## FUNCTION **MethodName**

Generate \

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

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## FUNCTION **ToPoly**

Generate \

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

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# ML\_Core/ ToField

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## DESCRIPTIONS

### **MACRO** ToField

	ToField
	<code>(dIn,dOut,idfield=", wifield=", wivalue=",datafields=")</code>

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## DESCRIPTIONS

### **MODULE** Types

	Types
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#### Children

1. [t\\_RecordID](#)
2. [t\\_FieldNumber](#)
3. [t\\_FieldReal](#)
4. [t\\_FieldSign](#)
5. [t\\_Discrete](#)
6. [t\\_Item](#)
7. [t\\_Count](#)
8. [t\\_Work\\_Item](#)
9. [AnyField](#)
10. [NumericField](#)
11. [DiscreteField](#)
12. [Layout\\_Model](#)
13. [Classify\\_Result](#)
14. [l\\_result](#)
15. [Confusion\\_Detail](#)



- 16. [ItemElement](#)
  - 17. [t\\_node](#)
  - 18. [t\\_level](#)
  - 19. [NodeID](#)
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## **ATTRIBUTE** t\_RecordID

[Types](#) \

	t_RecordID
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## **ATTRIBUTE** t\_FieldNumber

[Types](#) \

	t_FieldNumber
--	---------------

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## **ATTRIBUTE** t\_FieldReal

[Types](#) \

	t_FieldReal
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## **ATTRIBUTE** t\_FieldSign

[Types](#) \

	t_FieldSign
--	-------------

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## ATTRIBUTE t\_Discrete

Types \

	t_Discrete
--	------------

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## ATTRIBUTE t\_Item

Types \

	t_Item
--	--------

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## ATTRIBUTE t\_Count

Types \

	t_Count
--	---------

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## ATTRIBUTE t\_Work\_Item

Types \

	t_Work_Item
--	-------------

## **RECORD** AnyField

Types \

	AnyField
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## **RECORD** NumericField

Types \

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

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## **RECORD** DiscreteField

Types \

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

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## **RECORD** Layout\_Model

Types \

	Layout_Model
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## **RECORD** Classify\_Result

Types \

	Classify_Result
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## **RECORD** l\_result

Types \

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

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## **RECORD** Confusion\_Detail

Types \

	Confusion_Detail
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## **RECORD** ItemElement

Types \

	ItemElement
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## **ATTRIBUTE** t\_node

Types \

	t_node
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## ATTRIBUTE t\_level

Types \

	t_level
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## RECORD NodeID

Types \

	NodeID
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