

# teradataml: Vantage 1.0 vs Vantage 1.1 or later Compatibility Matrix

## Functions Compatibility with Vantage Versions

Following table specifies which Analytic Functions are supported on Vantage 1.0 vs Vantage 1.1 or later.

**Note:** Analytic Functions not specified here are supported on both.

	Function	Vantage 1.0		Vantage 1.1 or later
		Supported?	Function Alternatives	Supported?
<b>teradataml.analytics.mle (ML Engine Functions)</b>				
1	Attribution	No	Advanced SQL Engine 'Attribution'	Yes
2	DecisionForestPredict	No	Advanced SQL Engine 'DecisionForestPredict'	Yes
3	DecisionTreePredict	No	Advanced SQL Engine 'DecisionTreePredict'	Yes
4	GLMPredict	No	Advanced SQL Engine 'GLMPredict'	Yes
5	NaiveBayesPredict	No	Advanced SQL Engine 'NaiveBayesPredict'	Yes
6	NaiveBayesTextClassifierPredict	No	Advanced SQL Engine 'NaiveBayesTextClassifierPredict'	Yes
7	Sampling	No	DataFrame.sample	Yes
8	SVMSParsePredict	No	Advanced SQL Engine 'SVMSParsePredict'	Yes
9	Sessionize	No	Advanced SQL Engine 'Sessionize'	Yes
<b>teradataml.analytics.sql (Advanced SQL Engine Functions)</b>				
10	Antiselect	No	ML Engine 'Antiselect'	Yes
11	MovingAverage	No	Use following ML Engine functions: <ul style="list-style-type: none"> <li>• CumulativeMovAvg</li> <li>• ExponentialMovAvg</li> <li>• SimpleMovAvg</li> <li>• WeightedMovAvg</li> </ul>	Yes
12	NGramSplitter	No	ML Engine 'NGrams'	Yes
13	Pack	No	ML Engine 'Pack'	Yes
14	StringSimilarity	No	ML Engine 'StringSimilarity'	Yes
15	Unpack	No	ML Engine 'Unpack'	Yes

## **Execution of Unsupported Analytic Functions when connected to Vantage 1.0**

If you connect to Vantage 1.0 and request to run unsupported teradataml Analytic Functions, the system raises an error.

For example:

```
teradataml.common.exceptions.TeradataMlException:  
[Teradata][teradataml](TDML_2078) Function is not supported on 'Vantage 1.0'.
```

## Function Arguments Compatibility with Vantage Versions

For some Analytic Functions, certain arguments are supported only on particular Vantage version. The following table specifies such function arguments:

Analytic Function	Argument name	Supported on Vantage 1.0	Supported on Vantage 1.1	Supported on Vantage 1.1.1 or later
AdaBoost	categorical_encoding	No	Yes	Yes
DecisionForest	categorical_encoding	No	Yes	Yes
DecisionForestPredict	output_response_probdist	No	No	Yes
	output_responses			
DecisionTree	categorical_encoding	No	Yes	Yes
GLMPredict	output_response_probdist	No	No	Yes
	output_responses			
GLML1L2Predict	output_prob	No	Yes	Yes
	output_responses	No	No	Yes
KNN	accumulate	No	Yes	Yes
	output_prob			
LDA	initModelTaskCount	No	No	Yes
NaiveBayesTextClassifierPredict	output_responses	No	No	Yes
RandomSample	setid_as_first_column	No	Yes	Yes
SVM.DensePredict	output_response_probdist	No	No	Yes
	output_responses			
SVM.SparsePredict	output_response_probdist	No	No	Yes
	output_responses			
VarMax	order_p	No	Yes	Yes
	order_d			
	order_q			
	seasonal_order_p			
	seasonal_order_d			
seasonal_order_q				
XGBoostPredict	output_response_probdist	No	No	Yes
	output_responses			

You can use these functions without the arguments mentioned in the above table, on the Vantage version where the argument is not supported. These new arguments are supported only on Vantage 1.1 or later. If used with an unsupported Vantage version, this error is returned:

```
[Teradata Database] [Error 4382] Argument {argument-name} is not defined in the function mapping definition
```

## Vantage 1.1.1: Existing Argument Updates in Analytic Function

Analytic Function	Argument name	Supported on Vantage < 1.1.1?	Supported on Vantage 1.1.1 or later	Remarks
AdaBoostPredict	'output_responses' argument is now optional.	Partially supported	Yes	Function may receive error from Vantage when connected to Vantage versions earlier than 1.1.1 and run without these parameters.
DecisionTreePredict	'output_responses' argument is now optional.	Partially supported	Yes	
NaiveBayesPredict	'responses' argument is now optional.	Partially supported	Yes	
SVMSParse	'value_column' argument is now required.	Yes	Yes	Argument is required even when connected to Vantage version earlier than 1.1.1.

For functions with arguments which are partially supported with Vantage version earlier than 1.1.1, as mentioned in the table above, you should use the argument that is now optional.

For example,

AdaBoostPredict function fails when output\_responses is not used with Vantage 1.1:

```
AdaBoostPredict(object = AdaBoost_out_2.model_table,
                newdata = iris_attribute_test,
                newdata_partition_column = ["pid"],
                attr_groupby_columns = "attribute",
                attr_pid_columns = ["pid"],
                attr_val_column = "attrvalue",
                output_response_probdist = True)
```

Following error is seen:

```
ADABOOST_PREDICT: Responses Argument must be specified if OutputResponseProbDist is set to true. ()
```

As a workaround, with Vantage 1.1, a user should use the 'output\_responses' argument as well to get the results.