



# BigML Fusion Cheatsheet



## Fusion configuration

### Fusion configuration options

Option	Description	Default	API Name
<b>Models</b>	Select up to 1,000 models, ensembles, logistic regression, and/or deepnets to create your fusion. You can also use existing fusions to include them in a new fusion.	Null	models
<b>Weights</b>	Assigns different weights to the selected models before creating the fusion.	1	weights
<b>Field mapping</b>	Maps the same fields from two different models in case they have different names	Null	fields_mapping



## Prediction configuration

### Operating kind options

Option	Description	Default	API Name
<b>Probability</b>	Averages the per-class probability distributions for all models in the fusion and predicts the class with higher probability. For regression fusions, the global prediction is the mean of the individual predictions.	probability	operating_kind

### Probability threshold

Option	Description	Default	API Name
<b>Probability threshold</b>	A percentage between 0% and 100% that can be used with classification fusions so that they only return the positive class when the probability on the prediction is above the established threshold.	Null	operating_point

### Default Numeric Values

Option	Description	Default	API Name	Option	Description	Default	API Name
<b>Default numeric value</b>	Replaces missing numeric values in your dataset by the field's maximum, mean, median, minimum, or zero.	Null	default_numeric_value	<b>Output dataset</b>	Defines whether a dataset with the results should be automatically created or not.	True	output_dataset

### Output file options

Option	Description	Default	API Name
<b>Fields separator</b>	Allows you to choose the best separator for your fields.	Comma	separator
<b>New line</b>	Sets the character to use as the line break in the generated csv file: "\n", "\r", "\r\n".	LF	newline
<b>Show/hide fields</b>	Shows or hides the rest of the fields in your output file.	True	output_fields
<b>Headers</b>	Shows or hides the names of your columns in the output file.	True	header

<b>Prediction column name</b>	Sets the name for the objective field. By default BigML takes the name of the fusion's objective field.	Objective Field Name	prediction_name
<b>Include probability</b>	Includes an additional column with the probability for classification fusions or confidence (expected error) for regression fusions	False	probability, confidence
<b>Probability column name</b>	Sets the name you want for the probability or confidence (expected error) column. By default it is named "probability" or "confidence".	Probability	probability_name, confidence_name

<b>Single model predictions</b>	Defines whether to include a column for each of the individual model predictions of the fusion. This will add a column per model, named <prediction_name>_n, where n is the position of the model in the model list in the fusion, starting at 1.	False	votes
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<b>Probabilities</b>	Includes a column for each of the objective field classes indicating their probabilities per instance predicted. This will add a column per field, named <objective_field_class> probability.	False	probabilities
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<b>Importances</b>	Defines whether the batch prediction includes a column for each of the field importances for the fusion predictions. There is a column per field, named <field_name> importance.	False	importance
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### Output Dataset