Statistical Functions

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The modules in this group support the application mathematical operations that are critical for machine learning. You can:

- Perform ad hoc computations on column values, including rounding

- Compute a variety of standard statistical distributions using the values in a column

- Create reports that describe a column's metadata, using either basic statistical measures such as mean and standard deviation or more advanced descriptive statistics

- Calculate correlations among columns

- Generate probability scores for column values

List of Modules

The category Statistical Functions includes the following modules:

Module	Description
Apply Math Operation (https://msdn.microsoft.com/en-us/library/azure/dn905975.aspx)	Applies a mathematical operation to column values
Descriptive Statistics (https://msdn.microsoft.com/en-us/library/azure/dn905933.aspx)	Generates a basic descriptive statistics report for the columns in a dataset
Elementary Statistics (https://msdn.microsoft.com/en-us/library/azure/dn905936.aspx)	Calculates specified summary statistics for selected dataset columns
Hypothesis Testing T-Test (https://msdn.microsoft.com/en-us/library/azure/dn905917.aspx)	Compares means from two datasets using a t-test
Linear Correlation (https://msdn.microsoft.com/en-us/library/azure/dn905819.aspx)	Calculates the linear correlation between column values in a dataset

Probability Function Evaluation (https://msdn.microsoft.com/en-us/library/azure/dn905813.aspx)	Fits a specified probability distribution function to a dataset
Replace Discrete Values (https://msdn.microsoft.com/en-us/library/azure/dn905815.aspx)	Replaces discrete values from one column with numeric values based on another column

See Also

Data Transformation / Scale and Reduce (https://msdn.microsoft.com/en-us/library/azure/dn905911.aspx)
Feature Selection Modules (https://msdn.microsoft.com/en-us/library/azure/dn905912.aspx)
Data Transformation / Learning with Counts (https://msdn.microsoft.com/en-us/library/azure/dn913056.aspx)
Machine Learning Module Descriptions (https://msdn.microsoft.com/en-us/library/azure/dn906013.aspx)
A-Z List of Machine Learning Studio Modules (https://msdn.microsoft.com/en-us/library/azure/dn906033.aspx)