### forecast

Predicts data for given time series data.

#### Syntax

forecast [OPTIONS] TIME\_SERIES\_FIELD [by GRP\_FIELD, ...]

Required Parameter

**TIME\_SERIES\_FIELD**

Field that contains time-series data.

Optional Parameter

**count=INT**

Number of rows of data to be predicted(default: 5)

**period=INT**

Time series cycle. It is automatically calculated using a Fast Fourier Transform (FFT) if not specified.

**seed=INT**

Fixed seed value. Specify this option when you want to keep the same result for the same input.

**time=FIELD**

Field to be used as the time record (default: **\_time** field)

**[by GRP\_FIELD, ...]**

Grouping fields in the aggregation with by directive, separated by a comma (,). This option MUST follow after the TIME\_SERIES\_FIELD option.

#### Description

It is recommended that you set a constant interval between the data in the time field by using the [timechart](https://docs.logpresso.com/en/query/timechart-command) command, and then use the forecast command. There must be at least 4 data points for each grouping field, and the value of the period must be less than one-half of the number of data points.

#### Usage

Predict values of the **count** field.

forecast count

Set the time series cycle of the **traffic** field to 5, and assign the time series prediction data according to the time written in the **set\_time** field. Assign 1234 as a fixed seed value to maintain the same result.

forecast period=5 time=set\_time seed=1234 traffic

Predict 10 data points of the series from the **sent\_bytes** field aggregated by the **region** group.

forecast count=10 sent\_bytes by region