Method Description

General Information

Type of Entry (*Academic, Practitioner, Researcher, Student*)	Academic
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Country	Spain
Type of Affiliation (*University, Company-Organization, Individual*)	University
Affiliation	Universidad de Castilla-La Mancha

Team Members (*if applicable*):

1st Member	
First Name	Juan R.
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First Name	Juan J.
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Information about the method utilized

Name of Method	Predilab
Type of Method (*Statistical, Machine Learning, Combination, Other*)	Combination
Short Description (up to 200 words)	The method is based on different combinations of well-known benchmarks, for which standard R code is available. The benchmarks are seven, namely Seasonal-Naïve, Naïve 2, Simple Exponential, Holt, Dampen, Theta4 and Theta4-ARMA. Theta4-ARMA is a method consisting on completing the forecasts produced by Theta4 with an ARMA model for the residuals. This method arises from the evidence that very often Theta4 leaves autocorrelated residuals, sometimes even with important seasonality. All benchmarks are tested on the data

	immediately before the forecast origin with a forecast horizon equal to the one in the test.
	After applying a prior normalization to each time series (multiply by a constant that puts all the numbers in hundreds), the method uses a different approach for each data frequency:
	1) Yearly, Quarterly: Theta4-ARMA.
	2) Monthly, weekly, daily: Mean of the three best forecasting benchmarks among the seven considered.
	3) Hourly: Seasonal naïve with period 24 hours, except for the series with a weekly period, where the seasonal naïve period is changed to 168.

Extended Description:

Apart from the textural description, please consider including an informative flowchart to help researchers better understand the exact steps followed for generating the forecasts. Please also try to clarify any assumptions made, the initialization and parameterization process used, etc., to facilitate reproducibility and replicability.