Time series analysis and forecasting

Master in Big Data Analytics

Midterm Project: Univariate Time-Series and ARIMA Models

Deadline: February 25th, 2024, at 22:00 (no delays are allowed) Upload to Aula Global: notebook (.Rmd and .html) and data

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Midterm Project

1/2

Tasks and evaluation:

Apply forecasting tools to an open dataset characterized by time series (at least 2)

- Data preprocessing (NAs, normalization, outliers, etc.) and visualization (trends, patterns, etc.): 2 points
- 2 Statistical Analysis (tests, acf, pacf, performance, etc.): 2 points
- **3** Model Selection and Justification: 3 points
- 4 Prediction Intervals: 1 point
- Interpretation and conclusions (accuracy and reliability of your forecasts, potential limitations, and the implications of your findings): 1 point

Important: you can take inspiration from other notebooks but you need to cite always the source