

Unemployment assignment

Statement

Description

The **UnemploymentSpain.dat** dataset contains the unemployment figures for Spain for every month between January 2001 and October 2022. The total unemployment is given.

Tasks

- Identify the best Seasonal ARIMA model to forecast the total unemployment rate.
- Identify the best SARIMAX model to forecast the total unemployment rate accounting for the COVID-19 period using an intervention variable.
- Compare both models.
- Apply nonlinear techniques for forecasting the unemployment
- Obtain the best forecast for the unemployment rate of **November 2022**

Write a report describing the process followed for each task.