COMILLAS UNIVERSIDAD PONTIFICIA ICAI ICADI CHIS

Machine Learning

Regression Hackathon

Statement

Datasets:

This hackathon will analyze a real dataset containing information about a wind generation power station. There are 10 sensors located at different places of the station measuring temperature, wind speed and direction.

- Attribute Information (31 variables):
 - 1. **TLXH80**: Temperature measured at position X.
 - 2. WSLXH80: Wind speed measured at location X.
 - 3. WDLXH80: Wind direction measured at location X.
- Output:
 - 4. **WG**: Wind power generation of the station.

Description:

The file **TRdataEEMhourly.csv** is available with several months of data. The objective is to identify the best possible model to predict WG.

The file TVdataEEMhourlyInput.csv is provided containing only the input variables.

You should provide forecasts of WG for the validation set. The best forecast will be the one with **lowest value of RMSE** in the validation set.

The forecast should be uploaded to

https://datathon.shinyapps.io/hackathon MBD 2021 ICAI Regression/ a text file.

Use the following code for writing the file with the obtained forecast. Adapt the name of the file with the name of your team:

write.table(ValForecast, "TeamName.csv", col.names = FALSE, row.names = FALSE)

Prepare a one-page document with a comparative analysis of the models trained and upload it to Moodle. Don't forget to include the Team number used during the Hackathon! Potential side effects of not including the Team number in the report are a 0 in the grade and make the teacher despair due to the futility of warning people.

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