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| April 2015 | |  |
| Walmart Recruiting - Sales in stormy weather | |  |
| Notes | |  |
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| Isaac | |  |
| Authored by: Gino Tesei | |  |
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Exploratory analysis

# weather.csv

Exploratory analysis has been performed and related results are shown in the Excel document [weather\_elab.xlsx](https://github.com/gtesei/fast-furious/blob/master/competitions/walmart-recruiting-sales-in-stormy-weather/weather_elab.xlsx)

Weather imputation models

Discarded input variables

* station\_nbr
* date

All predictors are assumed as numeric (no factors)

**Models & Performance**

* Performed **basic** imputation with **BlackGuido** on Mode/Average/LineraReg and observed mean imputing performance (RMSE) **17.9**
* Performed **full** imputation with **BlackGuido** on Mode/Average/LineraReg/KNN\_Reg/PLS\_Reg/Ridge\_Reg/SVM\_Reg/Cubist\_Reg and observed mean imputing performance (RMSE) …

Predictive model #1 – basic

* For each date <d> and for each item <i> sold/predicted to be sold in the store <s>, the related train/test set has been built with (imputed) weather data of the station <st> associated to the store <s> in the key.csv file, and the related output training variable are the units sold in the train.csv file for <d,s,i>
* Feature selection: …
* Model: …