



Test 6

Subject: Machine Learning for Data Science

Period: 2019.2

In a `<my_first_name>.ipynb` file:

1. (12 pts.) From [this paper](#):
 - (a) (3 pts.) Show table 1: statistics of the 68 time-series of daily sea surface temperatures (sst's) used for the study.
 - (b) (3 pts.) Show table 2: the first ten eigenvalues of the PCA of the time-series above.
 - (c) (3 pts.) Reproduce figure 2: circle of correlations of the temperatures' time-series on the plane spanned by the principal axes 1 and 2 of the PCA of the time series.
 - (d) (3 pts.) Reproduce figure 3: the pattern of the daily measures of all buoys on the plane spanned by the principal axes 1 and 2.
2. (8 pts.) From [this paper](#) reproduce figures 1, 2, 3 and 4. Each graphic worths 2 points.

November 21, 2019