

**Subject: Data Science Foundations****Session 8 – Probability distributions****Exercise 2 - Hypothesis Testing Basics - One-Sample test**

- Considering the Hypothesis Testing Basics in Demo 3 develop the Hypothesis Tests for the distribution of Population and Sample heights of Spain and Catalunya.
- Interpret and discuss the Results.
- Commit scripts in your GitHub account. You should export your solution code (.ipynb notebook) and push it to your repository “DataScienceFoundations”.
- The following are the tasks that should complete and synchronize with your repository “DataScienceFoundations” until November 06. Please notice that none of these tasks is graded, however it’s important that you correctly understand and complete them in order to be sure that you won’t have problems with further assignments.

**Guidelines:**

- Clone the Git repository to get an initial code:  
[https://github.com/FGutierrezBTS/BTS\\_MasterInBigData.git](https://github.com/FGutierrezBTS/BTS_MasterInBigData.git)
- Once you downloaded the repository to your local file system, go to the folder “BTS\_MasterInBigData/Session\_8\_DSF”.
- Copy the folder “Session\_8\_DSF” into your local folder “DataScienceFoundations”.
- In the folder “Session\_8\_DSF” you will see the files called:
  - *BTS\_DataScienceFoundation\_Session8\_Probability\_Distributions\_Exercise2.ipynb*
- Import these files into Jupyter Notebook using the “Upload” button.
- Open the imported script and put your code inside the notebook.
- Export your Exercise2 \*.ipynb notebook and push it to your repository “DataScienceFoundations”.
- Also in “Teams/Assignments” section.