

Assignment 1

[20 points]

Instructions

1. You may use python or R. If you are using Python, use Jupyter notebook. If you are using R, use the R notebook by R studio. Both are equivalent.
2. Create a Github private repo where all your assignments and projects would be stored. At an opportune time, you would be asked to share your repo with our evaluation team.
3. Your submission should be sufficiently original to be considered for evaluation.
4. **Submission would include source code, data availability at Github as well as Google classroom submission of the markdown pdf (do not submit any other format on Google classroom).**

Submission date and time

September 2, 2019, by 6 PM.

The case study

"Climate Change is the defining issue of our time and we are at a defining moment. From shifting weather patterns that threaten food production to rising sea levels that increase the risk of catastrophic flooding, the impacts of climate change are global in scope and unprecedented in scale. Without drastic action today, adapting to these impacts in the future will be more difficult and costly." - The United Nations

There are certain world leaders who do not believe in climate change and therefore their policies do not favor any counter-measures. Also, these leaders do not understand sophisticated methods such as ML/AI etc. They do not even understand regression.

Collect various indicators of climate change from WWW and create a compelling case (visual storytelling) to show how climate change is becoming evident with every passing day, across various continents. Try to show interesting associations. For instance, how deforestation is linked to global warming.

Try to shed light on the Indian story.

A useful resource - <https://data.worldbank.org/topic/climate-change>

Find more such resources.

Grading

1. At least 5 major data-backed insights with substantial temporal patterns. **[5 points]**
2. Curated data quality and rigor. **[5 points]**
3. 5 or more visuals including univariate and multivariate plots. **[5 points]**
4. Adequate comments, references, and explanations. **[2.5 points]**
5. Storytelling. **[2.5 points]**