

As a Data Scientist, your job requires you to have the ability to write good programs. In addition, you often need to think outside the box and use your analytical skills. There is no wrong or right answer to the question below. So have fun exploring your options, and remember, the sky is your limit.

### Background:

Imagine yourself part of the Supreme Committee on COVID-19. Part of your job is to create policies to help prevent the spread of COVID-19 in Oman. These policies often are based on the current data and its fluctuations. You are given a dataset but not limited to it, you can use your own as long as you provide the source and make sure that it is valid.

### Requirement:

We need you to explore the dataset, visualize it, and derive insightful patterns. You can dive as deep as you like during your exploration. Moreover, using machine learning algorithms to aid you is mandatory. There are many types to choose from like, Supervised Learning, Unsupervised Learning, and Deep Learning. However, at the end of the day, all we need you to do, is write different policies that could help reduce the spread of covid based on your analysis.

For every policy you write, you need to explain why you think the policy is valid, and the data evidence for it.

### Data Definitions:

The provided data is mostly self-explanatory. However, these are some definitions that might be helpful.

Data	Definition
<b>stringency index</b>	This is a composite measure based on nine response indicators including school closures, workplace closures, and travel bans, rescaled to a value from 0 to 100 (100 = strictest).
<b>Mobility Report</b>	<p>This dataset shows how visits and length of stay at different places change compared to a baseline. Google has calculated these changes using the same kind of aggregated and anonymized data used to show popular times for places in Google Maps.</p> <p>Changes for each day are compared to a baseline value for that day of the week: The baseline is the median value, for the corresponding day of the week, during the 5-week period Jan 3–Feb 6, 2020.</p>

### Links:

- [General Statistics](#)
- [Vaccinations](#)
- [Region Mobility Report](#)
- [Government Measures](#)

### Submission Details:

1. Notebook that contains the exploration, visualization and all steps leading to the policies.
2. Written either in Python or R.
3. Data source (if you are not using the provided one).
4. The set of policies that you recommend based on your data analysis and predictions.