Evaluating the Changes in Surface Temperature Levels Across Countries and Predicting the Future Changes

Global warming is one of the important issues of our time. It refers to the long-term rise in Earth's average surface temperature due to human activities.. Global warming has serious implications for the earth's climate system, leading to numerous environmental and economic challenges. As temperatures continue to rise, the impacts of global warming are becoming more evident. This phenomena threatens our ecosystems, biodiversity, and human well-being. However, people still have varying opinions when it comes to climate change - some believe that it is an ever-present threat that governments should take action against, while others believe that change is not necessary. A common argument made by proponents against climate change policy is that, although the earth is warming, human action has a negligible impact on it.

As a data scientist, you will be conducting a study with data provided by the IMF on surface temperature levels. You have two tasks. First is to find out whether the change in surface temperature levels are a serious threat or not. Second is to come up with a regression analysis to predict future changes in surface temperature levels. Your findings should provide valuable insights to governments on decision making.

References:

https://climatedata.imf.org/pages/climatechange-data