Project Proposal - Group4

Evidence(s) of global climate change - Grace, Farzana, Navin, Salma

Global warming and climate changes unfortunately are the direct result of the human civilisation.

We were moved by a data visualisation that demonstrated the increase in rainfall over South Asia1. This led us to wanting to prove for ourselves that the climate changing is having a devastating impact on populations globally. In order to establish this we needed to prove four things: 1. The climate is changing, 2. It is a direct effect of human activities 3. It is having real world impact with regards climate 4. Whether there exists a correlation between climate change due to human activities and climate affects. This led us to questioning what where the biggest drivers of climate change i.e. greenhouse gases, manufacturing etc. It also led us to asking what would be the biggest signs that the climate was indeed changing i.e. temperature, increased rainfall, heat waves, forest fires etc.

(a) increased rainfall {south Asia monsoon becoming more extreme}

(b) forest fire

(c) increased greenhouses gases emission

(d) heat waves

each person can take one aspect from the above-

(1) gather dataset

(2) merge datasets

(3) analyse data for insights

(4) create visualisation(s)

(5) perform stats

(6) create presentation to present own branch of work

Sources

Heatwave: <https://www.kaggle.com/code/sevgisarac/climate-change/data>

Rainfall: <https://www.kaggle.com/datasets/aryakrishnanar/average-rainfall-and-temperature-in-uk20102019/metadata>

Greenhouse gases: https://www.kaggle.com/code/avanishsingh007/green-house-gas-historical-emission-data-analysis

Forest fire: https://www.kaggle.com/datasets/sumitm004/forest-fire-area

References:

1. <https://www.nytimes.com/interactive/2022/10/04/climate/south-asia-monsoon-climate-change.html>