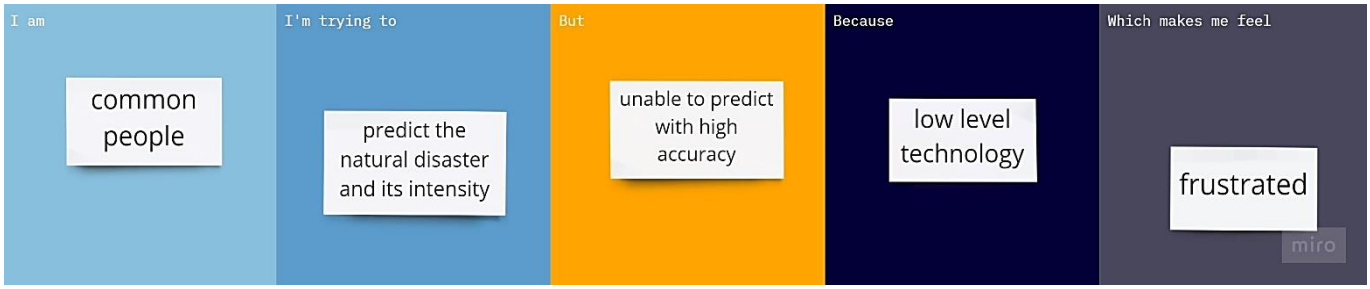
IDEATION PHASE

DEFINE THE PROBLEM STATEMENT

Date	19 September 2022
Team ID	PNT2022TMID27942
Project Name	Project - Natural Disasters Intensity Analysis and Classification using Artificial Intelligence
Maximum Marks	2 Marks

PROBLEM STATEMENT

- A **natural disaster** is "the negative impact following an actual occurrence of natural hazard in the event that it significantly harms a community".
- A natural disaster can cause loss of life or damage property.
- The severity of the damage depends on the affected population's resilience and on the infrastructure available.
- Some examples of the natural disasters are cyclone, wildfire, earthquake and floods.
- There are many prediction methods to predict the occurrence of natural disaster, yet the level of damage due to disaster couldn’t be able to bring down.
- Hence, the defined problem statement leads to focus on building a **Multilayer deep Convolutional Neural network** (CNN) model which classifies the natural disaster with high efficiency based on the image captured and predicts how much intensely, the disaster could damage the environment.



What is the problem?	Occurrence of natural disaster
Who does the problem affects?	Environment and all of its constituents such as human beings, plants, animals and infrastructures & economy
When the problem occurs?	Extreme climate conditions, human carelessness, seismic movements and greenhouse effect
Where does the problem occur?	Coastal regions, over populated regions
Why it is important to fix the problem?	To save the lives of living things, maintain ecological balance and financial security, forecast awareness, less losses due to damage