**Project Design Phase-I**

**Proposed Solution Template**

|  |  |
| --- | --- |
| Date | 06 May 2023 |
| Team ID | NM2023TMID19013 |
| Project Name | Automated weather classification using transfer learning |

**Proposed Solution Template:**

Develop a program which would run in the background and inform the user when a warning and/or watch has been issued in the selected area. When a warning and/or watch has been issued, the user clicks on the link and reads the actually forecast message issued by the National Weather Service

|  |  |  |
| --- | --- | --- |
| **S.No.** | **Parameter** | **Description** |
|  | Problem Statement (Problem to be solved) | Users can get too busy at work or at home to check the current weather condition for sever weather. Many of the free weather software programs have too many pop ups or unwanted software tied to them like weather bug. Getting confusing information on weather warnings and watches from inaccurate sources |
|  | Idea / Solution description | Weather systems are simply the movement of warm and cold air across the globe. These movements are known as low-pressure systems and high-pressure systems. High-pressure systems are rotating masses of cool, dry air. High-pressure systems keep moisture from rising into the atmosphere and forming clouds |
|  | Novelty / Uniqueness | Class names for classification systems based on weather patterns often include geographical names such as polar, tropical, continental, and marine. These terms are modified by terms describing temperature and moisture, or the intensity of weather during summer or winter |
|  | Social Impact / Customer Satisfaction | Climate change is not just an environmental issue, but comes with a whole raft of social issues, including displacement of communities, food security, water shortages and health-related issues |
|  | Business Model (Revenue Model) | Climate change is not just an environmental issue, but comes with a whole raft of social issues, including displacement of communities, food security, water shortages and health-related issues |
|  | Scalability of the Solution | The four meteorological scales are: microscale, mesoscale, synoptic scale, and global scale. Meteorologists often focus on a specific scale in their work. |