**Project Design Phase-I**

**Proposed Solution Template**

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| Date | 06 May 2023 |
| Team ID | NM2023TMID14678 |
| Project Name | Automated weather classification using transfer learning |

**Proposed Solution Template:**

Project team shall fill the following information in proposed solution template.

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| **S.No.** | **Parameter** | **Description** |
|  | Problem Statement (Problem to be solved) | The use of a pre-trained model on a new problem is known as transfer learning. |
|  | Idea / Solution description | Weather classification is an essential tool for meteorologists and weather forecasters to predict weather patterns and communicate them to the public. |
|  | Novelty / Uniqueness | Weather phenomenon recognition notably effects many aspects of our daily lives ,the analysis of weather phenomenon plays a crucial role in various applications ,for example environmental monitoring ,weather forecasting, and the assessment of environmental quality. |
|  | Social Impact / Customer Satisfaction | Transfer learning has become one of the most common techniques that has achieved better performance in many areas, especially in image analysis and classification. |
|  | Business Model (Revenue Model) | \*Prediction model  \*More widely used a transfer learning  \*Used image processing |
|  | Scalability of the Solution | Accurately distinguishing weather phenomena can improve agricultural planning.  2-3 years of used in garenty. |