**Project Design Phase-I**

**Proposed Solution Template**

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| Date | 25 May 2023 |
| Team ID | NM2023TMID11400 |
| Project Name | **Automated whether classification using transfer learning** |

**Proposed Solution Template:**

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| **S.No.** | **Parameter** | **Description** |
|  | Problem Statement | User from the department of Automated whether classification using transfer learning. Weather classification is an essential tool for meteorologists and weather forecasters to predict weather patterns and communicate them to the public. Weather phenomenon recognition notably affects many aspects of our daily lives |
|  | Idea | **. A machine uses the knowledge learned from a prior assignment to increase prediction about a new task in transfer learning**  . |
|  | Novelty | . **These weathers are majorly classified into 5 categories namely Cloudy, Shine, Rain, Foggy, Sunrise. Deep-learning (DL)** |
|  | Social Impact | **The use of a pre-trained model on a new problem is known as transfer learning in machine learning. A machine uses the knowledge learned from a prior assignment to increase prediction about a new task in transfer learning** |
|  | Business Model | . **The analysis of weather phenomenon plays a crucial role in various applications, for example, environmental monitoring, weather forecasting, and the assessment of environmental quality. Besides, different weather phenomena have diverse effects on agriculture.** |
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