**Project Design Phase-I**

**Proposed Solution Template**

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| Date | 20 May 2023 |
| Team ID | NM2023TMID17790 |
| 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) | Weather recognition is a common problem for many branches of industry. Modern agriculture is also  based on the analysis of current meteorological conditions. One of the  solutions may be a system detecting weather from image. Because any  special sensors are needed, the system should be really cheap. |
|  | Idea / Solution description | Weather detection using image |
|  | Novelty / Uniqueness | Next-generation radar systems (dual-polarization radar, phased-array radar) |
|  | Social Impact / Customer Satisfaction | considers the vulnerability of people and property to the weather and warns of the associated impacts, as well as the likelihood of them occurring. |
|  | Business Model (Revenue Model) | A B2C business where data is supplied free and revenue is from advertising, a B2B business where weather data and related insight are delivered to organisations and a bespoke business. |
|  | Scalability of the Solution | Global efforts to bring about crucial improvements in supercomputing efficiency and energy usage were placed center stage this week as the European Centre for Medium-Range Weather Forecasts (ECMWF) welcomed users and vendors from around the world to London for the Cray |