**Ideation Phase**

**Define the Problem Statements**

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| Date | 29 April 2023 |
| Team ID | NM2023TMID08070 |
| Project Name | Automated Weather Classification using Transfer Learning – Artificial Intelligence |
| Maximum Marks | 2 Marks |

**Automated Weather Classification using Transfer Learning:**

Based on the Literature Survey, the approach to building an Automated Weather Classification system using Transfer Learning involves data collection and pre-processing, model selection, feature extraction, training and evaluation, deployment, and continuous improvement.

The System should be user-friendly, scalable, and maintainable, and updated regularly with the latest weather data and improved models to ensure accurate classifications.

**Customer Problem Statement:**



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| **PROBLEM STATEMENT** | **I AM** | **I AM TRYING TO** | **BUT** | **BECAUSE** | **WHICH ASK ME FEEL** |
| **Problem Statement 1** | **Automated weather prediction relies heavily on the quality and**  **availability of data.** | **Increase the density of weather stations: The density of weather stations needs to be increased to ensure that weather data is available for a**  **larger geographical area.** | **Problem arises in the data sharing and collaboration** | **Upgrading weather observation equipment's** | **Modern equipment can provide more precise measurements, which can improve the accuracy of weather predictions.** |