**Initial Project Planning Template**

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| Date | 12 July 2024 |
| Team ID | SWTID1719935963 |
| Project Name | Automated Weather Classification using Transfer Learning |
| Maximum Marks | 4 Marks |

**Product Backlog, Sprint Schedule, and Estimation (4 Marks)**

Use the below template to create a product backlog and sprint schedule

| **Sprint** | **Functional Requirement (Epic)** | **User Story Number** | **User Story / Task** | **Story Points** | **Priority** | **Team Members** | **Sprint Start Date** | **Sprint End Date (Planned)** |
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| Sprint-1 | Data collection | USN-1 | Gathering the necessary data required for training and testing your machine learning model. This involves identifying and sourcing relevant datasets or collecting your own data if necessary. | 1 | Medium | Vaibhav K | June 29 | June 30 |
| Sprint-1 | Data preprocessing | USN-2 | Preparing the collected data for model training by cleaning, transforming, and organizing it. This step ensures that the data is in a suitable format for the machine learning algorithms. | 2 | High | Policherla Venkata Hari Ayyappa pranay | June 30 | July 1 |
| Sprint-2 | Model building | USN-3 | Developing the initial machine learning model using suitable algorithms and architectures. This involves setting up the model, defining layers, and compiling it. | 2 | High | Roopesh Sai Bestha | July 1 | July 3 |
| Sprint-1 | Model tuning | USN-4 | Optimizing the model's performance through hyperparameter tuning, regularization, and validation. This step involves experimenting with different configurations to improve accuracy and efficiency. | 2 | Medium | Sai Sri Lasya Maturi | July 3 | July 5 |
| Sprint-1 | Application building | USN-5 | Developing the application that will use the trained model for practical use. This involves integrating the model into an application and ensuring it can process real-time data. | 1 | High | Roopesh Sai Bestha | July 5 | July 8 |