**Project Initialization and Planning Phase**

| Date | 10 July 2024 |
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| Team ID | 740004 |
| Project Name | Rising Waters: Machine Learning Approach To Flood Prediction |
| Maximum Marks | 3 Marks |

**Define Problem Statements :**

Timely prediction of rising water levels is crucial for effective flood management and prevention of damages. Machine learning can aid in this by analyzing environmental data to predict the likelihood of flooding. This can include weather patterns, river water levels, soil moisture, and other relevant factors. By identifying high-risk areas early, emergency services can implement preventive measures and respond more effectively, thereby reducing the impact of floods on communities.

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| **Problem**  **Statement (PS)** | **I am** | **I’m trying to** | **But** | **By using** | **Which makes me feel** |
| PS-1 | Emergency services | Identify the risk of rising water levels | - | By machine learning | - |
| PS-2 | Local government | Detect potential flooding events in early stages | - | By machine learning | - |
| PS-3 | Urban planner | Personalize flood prevention strategies for high-risk areas | - | By machine learning | - |