

## Model Development Phase Template

Date	15 March 2024
Team ID	740089
Project Title	Acoustic Fire Extinguishing prediction
Maximum Marks	5 Marks

## Feature Selection Report Template

In the forthcoming update, each feature will be accompanied by a brief description. Users will indicate whether it's selected or not, providing reasoning for their decision. This process will streamline decision-making and enhance transparency in feature selection.

Feature	Description	Selected (Yes/No)	Reasoning
Fire_Type	Type of fire ( Eg : electrical, chemical)	yes	Essential to predict the effectiveness of acoustic waves for specific fire types.
Temperature	Temperature of the fire	yes	Helps in determining the required intensity and frequency of acoustic waves.
Intensity	Intensity of the fire	yes	Critical for assessing the necessary power of waves
Humidity	Humidity level in the environment	Yes	Affects the propagation of acoustic waves.

Acoustic_ Frequency	Frequency of the acoustic waves used	yes	Key parameter for the prediction model.
Duration	duration for which acoustic waves are used	yes	Important for evaluating the effectiveness over time
Success_ Rate	Historical success rate of similar attempts	yes	Provides a basis for predicting future success