

Project Design Phase-I
Proposed Solution Template

Date	23 October 2023
Team ID	592862
Project Name	Detect Smoke with The Help of IOT Data And Trigger A Fire Alarm

Proposed Solution Template:

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	The limitations of traditional fire detection systems, which can lead to delayed or ineffective fire detection. Smoke can vary in appearance and density, posing a challenge for the model's generalization capability.
2.	Idea / Solution description	The proposed solution involves leveraging IoT data and machine learning to enhance smoke detection and fire alarm triggering. This entails using advanced technology to enable early detection, remote monitoring, and data-driven decision making, ultimately improving safety and security.
3.	Novelty / Uniqueness	This combination(IOT data and Machine learning) offers a more advanced and adaptable approach compared to traditional fire detection systems.
4.	Social Impact / Customer Satisfaction	The project's social impact is profound as it aims to save lives, reduce property damage, and enhance overall safety in residential, commercial, industrial, and public spaces. This will lead to greater customer satisfaction due to improved safety and peace of mind.
5.	Business Model (Revenue Model)	The specific revenue model is not detailed in the proposal, but potential revenue streams could include selling or licensing the IoT devices and software to end-users, offering subscription-based services for remote monitoring, and partnering with fire safety service providers.
6.	Scalability of the Solution	The project outlines the applicability of the solution in various environments, suggesting scalability. It's essential to ensure that the solution is designed with scalability in mind, allowing it to be easily expanded to cover a wide range of settings without compromising performance or safety.