## **IDEATION PHASE – BRAINSTROMING SESSION**

Project Name: Industry Specific Intelligent Fire Management System	Team Members:
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## **Problem Statement:**

Suggest an innovative approach for effective fire management in industries to prevent fire accidents and take appropriate measures to avoid any catastrophe

IDEA 1	IDEA 2	IDEA 3
<ul> <li>Employing gas sensor, flame sensor and temperature sensor to detect any changes in the environment.</li> <li>Based on the temperature readings and if any Gases are present the exhaust fans are powered ON.</li> <li>If any flame is detected the sprinklers will be switched on automatically.</li> <li>Emergency alerts are notified to the authorities and Fire station via FAST2SMS.</li> </ul>	<ul> <li>A microcontroller based model for industries safety, which can detect gas leakage hazardous fire as well as take action to extinguish the fire.</li> <li>With the assistance of sensors, the system continuously senses leakage of gases and fire occurrence.</li> <li>Upon detection of the same, the system disconnects the building's primary power source and shuts the main gas valve.</li> <li>It also notifies the manager via GSM.</li> </ul>	<ul> <li>By analyzing the transmitted images, an algorithm is able to recognize the source of fire and activate an alarm, thereby ensuring the safety of the enterprise.</li> <li>The algorithm deploys various characteristics of flame images during data processing.</li> <li>The mixed Gaussian model is used to distinguish the dynamic area from the static background and the color characteristics of pixels in the RGB model are analyzed to detect fire</li> </ul>