**Model Development Phase Template**

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| Date | 11-07-2024 |
| Team ID | 739736 |
| Project Title | SMOKE DETECTION USING IOT DATASET |
| Maximum Marks | 5 Marks |

**Feature Selection Report Template**

This Feature Selection Report template provides a structured approach to documenting the rationale and methods used to select features for your project on smoke detection using IOT dataset.

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| **Feature** | **Description** | **Selected (Yes/No)** | **Reasoning** |
| Temperature | Temperature is a measure of warmth or coldness present in atmosphere | Yes | Since it is an important feature which plays a major role in detecting smoke. |
| Humidity | It refers to amount of moisture or water vapour present in air. | Yes | Density of the moisture particles can trigger your alarm, even if they're water particles. |
| Raw Ethanol | Ethanol appears as a clear colorless liquid with a characteristic vinous odor and pungent taste**.** | No | Since there is less collinearity between raw ethanol and target values it can’t be treated as an important feature. |