Model Development Phase Template

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.

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. |