



Model Development Phase Template

Date	15 June 2025
Team ID	SWTID1749709340
Project Title	Predicting Co2 Emission by countries Using Machine Learning
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
CountryName	Name of the country where CO ₂ emissions data is recorded	Yes	Crucial for capturing country-specific emission patterns; encoded for model use.
Year	Year of the CO ₂ emission observation	Yes	Temporal feature reflecting global/regional emission trends over time.
IndicatorName	Name of the metric (e.g., CO ₂ emissions in kt)	No	Constant after filtering; provides no additional variation for prediction.
IndicatorCode	Unique code for the indicator (e.g., EN.ATM.CO2E.KT)	No	Redundant and constant; not useful once IndicatorName is filtered.
CountryCode	ISO 3-letter code for the country	No	Contains the same information as CountryName; unnecessary duplication.





Value CO ₂ emission kilotonnes (kt variable	No	This is the output variable the model predicts; not used as an input feature.
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