Model Development Phase Template

Date	15 March 2024
Team ID	LTVIP2024TMID24955
Project Title	SMS Spam Detection - AIML
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
Message Length	The total number of characters in the SMS message.	Yes	Spam messages often have distinct length patterns (e.g., longer promotional or short urgent texts).
Presence of Keywords	Whether specific keywords (e.g., "free," "win," "prize," "click") appear.	Yes	Spam messages frequently include enticing or misleading keywords.

Number of Links	The count of URLs or links within the message.	Yes	Spam messages often contain links leading to phishing sites or offers. Special Characters
Special Characters	Presence of special characters (e.g., "$", "%", "!", "@").	Yes	Spam messages may contain special characters to grab attention or bypass filters.
Sender Information	Metadata about the sender (e.g., phone number, unknown sender, short code).	No	Not always reliable as spammers can spoof phone numbers, and metadata may not be consistent.
Capitalization	Percentage of words in all caps (e.g., "FREE," "URGENT").	Yes	Spam messages frequently use capitalization to emphasize key points or urgency.