

## Model Development Phase

Date	6 February 2026
Team ID	LTVIP2026TMIDS66217
Project Title	TransLingua – AI-Powered Multi-Language Translator
Maximum Marks	5 Marks

### Feature Selection Report Template

In this project, feature selection focuses on identifying the key input parameters required for accurate and context-aware language translation using a pre-trained large language model. Since TransLingua does not rely on a traditional tabular dataset, features are derived from user inputs and contextual parameters used in prompt construction.

Feature	Description	Selected (Yes/No)	Reasoning
Input Text	Text entered by the user for translation	Yes	This is the primary input required for performing language translation.
Source Language	Language of the input text	Yes	Required to correctly interpret the input text before translation.
Target Language	Language into which the text is translated	Yes	Essential to generate the translated output in the desired language.
Text Length	Length of the input text	No	The translation model can handle variable-length text without explicit feature usage.
Special Characters	Presence of symbols or special characters	No	Handled internally by the generative model during encoding.
Prompt Template	Structured instruction sent to the LLM	Yes	Ensures context-aware and accurate translation by guiding the model behavior.
Translation Output	Generated translated text	Yes	Represents the final output of the system and fulfills the project objective.

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### System Architecture Diagram

