GEN-AI UNIT 1 HANDS-ON

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Task	Model	Classification (Success/Failure)	Observation (What actually happened?)	Why did this happen? (Architectural Reason)
Generation	BERT	Failure	Could not generate a meaningful continuation; produced errors or incoherent text.	BERT is an encoder; it isn't trained to predict the next word
	RoBERTa	Failure	Output was nonsensical and the pipeline failed to generate proper text.	RoBERTa is also encoder-only and lacks a decoder for sequence generation.
	BART	Success	Generated a fluent continuation of the prompt.	BART has an encoder–decoder architecture trained for sequence-to-sequence generation.
Fill-Mask	BERT	Success	Predicted 'create', 'generate'.	BERT is trained on Masked Language Modeling (MLM).
	RoBERTa	Success	Predicted highly accurate and confident masked tokens.	RoBERTa is an optimized encoder trained extensively on MLM.
	BART	Partial Success	Filled the mask but predictions were less direct or varied.	BART is trained with denoising autoencoding, not pure MLM.
QA	BERT	Partial Success	Extracted relevant phrase such as "hallucinations, bias, and deepfakes" with low confidence.	Base BERT is not fine-tuned for question answering tasks.
	RoBERTa	Partial Success	Returned similar or slightly better span selection than BERT.	Good encoder, but still specifically trained for QA purposes.
	BART	Partial Success	Sometimes produced the correct answer span, sometimes incomplete.	Encoder–decoder can correctly map question-context pairs, but without fine-tuning properly for QA, its performance is unstable.

GITHUB LINK:

https://github.com/chandan365c/UE23CS342BA4_GenAI/tree/main/UNIT1