Generative AI Lab Unit- 1

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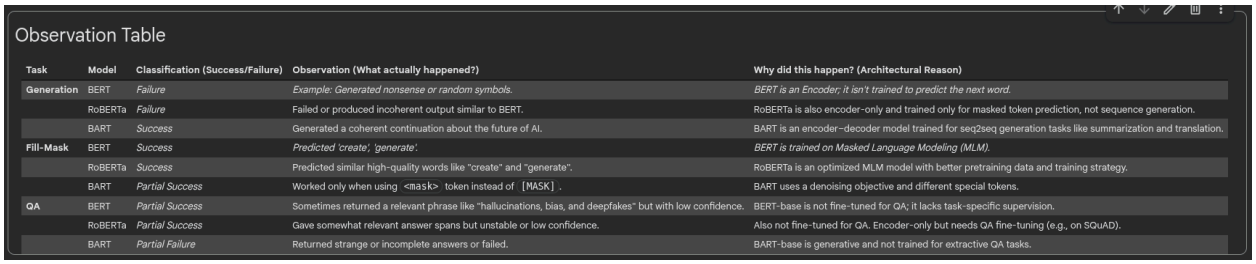
Output Table ScreenShot:



Observation Table

Task	Model	Classification (Success/Failure)	Observation (What actually happened?)	Why did this happen? (Architectural Reason)
Generation	BERT	*Failure*	*Example: Generated nonsense or random symbols.*	*BERT is an Encoder; it isn't trained to predict the next word.*
	RoBERTa	*Failure*	Failed or produced incoherent output similar to BERT.	RoBERTa is also encoder-only and trained only for masked token prediction, not sequence generation.
	BART	*Success*	Generated a coherent continuation about the future of AI.	BART is an encoder–decoder model trained for seq2seq generation tasks like summarization and translation.
Fill-Mask	BERT	*Success*	*Predicted 'create', 'generate'.*	*BERT is trained on Masked Language Modeling (MLM).*
	RoBERTa	*Success*	Predicted similar high-quality words like "create" and "generate".	RoBERTa is an optimized MLM model with better pretraining data and training strategy.
	BART	*Partial Success*	Worked only when using `<mask>` token instead of `[MASK]`.	BART uses a denoising objective and different special tokens.
QA	BERT	*Partial Success*	Sometimes returned a relevant phrase like "hallucinations, bias, and deepfakes" but with low confidence.	BERT-base is not fine-tuned for QA; it lacks task-specific supervision.
	RoBERTa	*Partial Success*	Gave somewhat relevant answer spans but unstable or low confidence.	Also not fine-tuned for QA. Encoder-only but needs QA fine-tuning (e.g., on SQuAD).
	BART	*Partial Failure*	Returned strange or incomplete answers or failed.	BART-base is generative and not trained for extractive QA tasks.

GitHub Repo Link:

https://github.com/GSuryaP/GenAI_Labs_PES2UG23CS192/tree/main/Unit1