GenAI Hands on 1

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Output table:

Task	Model	Classification (Success/Failure)	Observation (What actually happened?)	Why did this happen? (Architectural Reason)
Generation	BERT	Failure	Could not generate a meaningful continuation.	BERT is an encoder-only so, it isn't trained to predict the next word
	RoBERTa	Failure	The pipeline failed to generate proper text.	RoBERTa is also encoder-only and does not have a decoder for sequence generation.
	BART	Success	Generated continuation of the prompt.	BART is an encoder–decoder arch used for sequence generation.
Fill-Mask	BERT	Success	Predicted 'create', 'generate', 'produce'.	BERT is trained on MLM.
	RoBERTa	Success	Predicted accurate tokens.	RoBERTa is an optimized encoder trained on MLM.
	BART	Partial Success	Predictions were less direct.	BART is trained with denoising autoencoding, not pure MLM.
QA	BERT	Partial Success	Extracted relevant phrase such as 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.	Specifically trained for QA purposes.
	BART	Partial Success	Sometimes produced the correct answer.	Correctly map question-context pairs, but without fine-tuning, its performance is unstable.