

GenAI ~ HandsOn Unit1

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Output Table

<u>Task</u>	<u>Model</u>	<u>Classification</u>	<u>Observation (What actually happened?)</u>	<u>Architectural Reason</u>
Generation	BERT	Failure	Repeated punctuation without semantic continuation	Encoder-only model with no autoregressive decoding
	RoBERTa	Failure	Echoed the prompt without generating new tokens	Optimized encoder-only architecture and no decoder
	BART	Success	Generated new tokens but semantics were noisy	Encoder-decoder architecture supports generation
Fill-Mask	BERT	Success	Correctly predicted "create", "generate", "produce" with high confidence	Pretrained using Masked Language Modeling (MLM)
	RoBERTa	Success	Produced correct and diverse verb predictions	Optimized MLM pretraining with larger data
	BART	Partial	Produced weaker and	Masking supported but

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			lower-confidence predictions	not primary objective
QA	BERT	Partial	Extracted relevant risks but incomplete answer	Base model not fine-tuned for question answering
	RoBERTa	Failure	Selected an irrelevant phrase from the context	Randomly initialized QA head without fine-tuning
	BART	Partial	Returned the entire sentence as the answer	Seq2seq bias and lack of extractive QA training