

GEN AI HANDS-ON 1

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Task	Model	Classification (Success / Failure)	Observation (What actually happened?)	Why did this happen? (Architectural Reason)
Generation	BERT	Failure	Model failed to generate meaningful text or returned errors when used with text-generation pipeline.	BERT is an encoder-only model trained for understanding tasks, not autoregressive next-token prediction.
	RoBERTa	Failure	Similar to BERT, failed or produced invalid output for text generation.	RoBERTa is also encoder-only and does not support causal text generation.
	BART	Success	Generated fluent and coherent text when used for generation tasks.	BART is an encoder-decoder model trained to generate text from corrupted inputs.
Fill-Mask	BERT	Success	Correctly predicted words like “create”, “generate”.	BERT is trained using Masked Language Modeling (MLM) , making it ideal for fill-mask tasks.
	RoBERTa	Success	Accurately predicted masked tokens using <mask>.	RoBERTa improves on BERT’s MLM training with more data and dynamic masking.
	BART	Partial Success	Predicted reasonable words but sometimes less precise than BERT/RoBERTa.	BART supports masking but is optimized more for sequence generation than single-token prediction.

Question Answering (QA)	BERT	Partial Success	Returned incomplete answers like “ <i>significant risks such as</i> ”.	Extractive QA predicts start/end token spans , often truncating list-based answers.
	RoBERTa	Partial Success	Returned multiple answer spans; some correct, some incomplete.	Better contextual representations, but still limited by extractive selection .
	BART	Failure (Extractive)	Output inconsistent or incorrect. It repeated the context itself.	BART is a generative model ; extractive QA pipelines are not its primary use case.