GenAI Hands-On 1 Unit 1

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Section: F

Task	**Model**	**Classification (Success/Failure)**	**Observation (What actually happened?)**	**Why did this happen? (Architectural Reason)**
Generation	BERT	*Failure*	*Generated meaningless symbols and text.*	*BERT is an Encoder; it isn't trained for text generation.*
	RoBERTa	*Failure*	*Generated incomplete text.*	*RoBERTa is also an Encoder, and can't be used for text generation.*
	BART	*Success*	*Generated understandable text.*	*BART is an encoder-decoder model, so it can be used for text generation.*
Fill-Mask	BERT	*Success*	*Correctly predicted 'create', 'generate'.*	*BERT is trained on Masked Language Modeling (MLM).*
	RoBERTa	*Success*	*Correctly predicted the masked tokens.*	*RoBERTa improves on the BERT model.*
	BART	*Success*	*Correctly predicted the masked tokens, but will lesser accuracy than the other 2.*	*This is not optimized for MLM.*
QA	BERT	*Failure*	*Returns same answer for different questions.*	*BERT is not fine-tuned for QA.*

	RoBERTa	*Partial Success*	*Produced unreliable results.*	*This does not have QA fine-tuning.*
	BART	*Partial Success*	*Gave vague answers.*	*This does not have QA fine-tuning.*