

Gen AI Hands-on Unit 1

Name: Daksh Yadav
SRN: PES2UG23CS926
Section: C

Output Table

T a s k	M o d e l	Classifica tion (Success/ Failure)	Observation (What actually happened?)	Why did this happen? (Architectural Reason)
G e n e r a t i o n	B E R T	Failure	Generated repetitive dots instead of meaningful text.	BERT is an encoder-only model trained for masked token prediction, not for autoregressive text generation.
G e n e r a t i o n	R o B E R T a	Failure	Did not generate any continuation beyond the prompt.	RoBERTa is also encoder-only and lacks a decoder to generate new tokens sequentially.
G e n e r a t i o n	B A R T	Partial Success	Generated additional text, but the output was incoherent and nonsensical.	BART has an encoder-decoder architecture that allows generation, but it is not fine-tuned for text generation tasks.
F i l l- M a s k	B E R T	Success	Correctly predicted words such as "create", "generate", and "produce".	BERT is trained using Masked Language Modeling (MLM), making it well-suited for predicting missing words.
F i l l- M a s k	R o B E R T a	Failure	Produced an error because no valid mask token was found in the input.	RoBERTa expects the mask token <mask> instead of [MASK], so the input format was incompatible.

F il l- M a s k	B A R T	Failure	Failed to perform masked word prediction.	BART is trained as a denoising autoencoder for sequence-to-sequence tasks rather than standard MLM.
Q A	B E R T	Partial Success	Extracted the correct phrase "hallucinations, bias, and deepfakes" but with a very low confidence score.	The base BERT model is not fine-tuned for question answering, so predictions are unreliable.
Q A	R O B E R T a	Partial Success	Returned a similar phrase "as hallucinations, bias, and deepfakes" with low confidence.	RoBERTa base is not trained specifically for QA tasks such as SQuAD.
Q A	B A R T	Failure	Returned "Generative AI poses" instead of the actual risks.	BART base is not specialized for extractive question answering and lacks QA fine-tuning.