Generative 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	Output was mostly dots and meaningless symbols.	BERT is an encoder-only model and is not trained to generate text word by word.
	RoBERTa	Failure	Did not generate meaningful continuation, output stopped early.	RoBERTa is also encoder-only and not designed for text generation.
	BART	Failure	Generated long, incoherent and random text.	BART was forced into causal generation without proper fine-tuning, leading to gibberish output.
Fill-Mask	BERT	Success	Predicted sensible words like applications, ideas, problems.	BERT is trained using Masked Language Modeling (MLM), so this task fits its training.
	RoBERTa	Success	Produced relevant predictions like AI, agents, applications.	RoBERTa is an improved version of BERT and is also trained using MLM.
	BART	Partial Success	Predictions were reasonable but more generic.	BART supports masking but is optimized for sequence-to-sequence tasks, not pure MLM.

QA	BERT	Failure	Returned incorrect answers like “not spam”.	The base BERT model was not fine-tuned for Question Answering.
	RoBERTa	Failure	Returned vague answers like “it”.	RoBERTa also needs QA fine-tuning to locate exact answer spans.
	BART	Partial Success	Returned long text fragments instead of direct answers.	BART is better at generation than extractive QA, so answers were not well focused.