

Unit 1 Assignment: The Model Benchmark Challenge

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Observation Table

Task	Model	Classification	Observation	Architectural Reason
Text Generation	BERT	Failure	Incoherent or repetitive output	Encoder-only model
	RoBERTa	Failure	Similar incoherent continuation	Encoder-only model
	BART	Success	Coherent text generation	Encoder–Decoder architecture
Fill-Mask	BERT	Success	Correct predictions	Trained with MLM
	RoBERTa	Success	High-quality predictions	Optimized MLM
	BART	Partial	Inconsistent results	Not designed for MLM
QA	BERT	Partial	Keyword-level answers	Not QA fine-tuned
	RoBERTa	Partial	Unstable answers	Not QA fine-tuned
	BART	Partial	Sometimes coherent	No QA fine-tuning