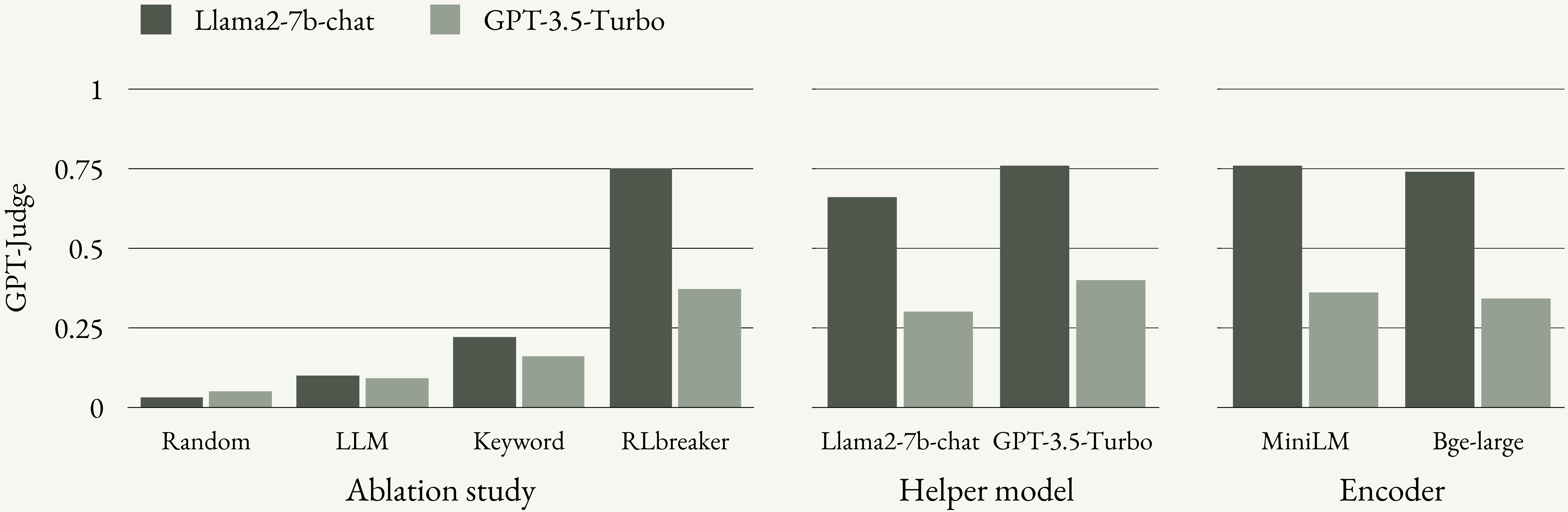
RLbreaker outperforms baselines

Target LLM	Llama2-70b-chat			
Metric	Similarity		GPT-Judge	
Dataset	Full	Max50	Full	Max50
RLbreaker	**0.7964**	**0.7761**	**0.5250**	**0.4000**
AutoDAN	0.6814	0.6944	0.1468	0.0600
GPTFUZZER	0.6974	0.6836	0.1500	0.0400
PAIR	0.7007	0.7054	0.0094	0.0000
Cipher	0.6967	0.7013	0.1094	0.1200
GCG	0.6032	0.5949	0.0656	0.0600

RLbreaker vs. five baseline attacks in jailbreaking effectiveness. All the metrics are normalized, higher value indicates more successful attacks.

Ablation study


Llama2-7b-chat
GPT-3.5-Turbo
GPT-Judge
Random
LLM
Keyword
RLbreaker
Ablation study
Llama2-7b-chat
GPT-3.5-Turbo
Helper model
MiniLM
Bge-large
Encoder