



SHARE: Shared Memory-Aware Open-Domain Long-Term Dialogue Dataset Constructed from Movie Script

Eunwon Kim^{1*} Chanhoh Park^{1*} Buru Chang²
¹Sogang University ²Korea University

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Motivation

Shared memories can make long-term dialogue more **natural, engaging and coherent!**

Norma & Arthur

Memory

Shared Memory :

-Arthur and Norma recall past drinking experiences, implying each other's low alcohol tolerance.

Dialogue history

All this for a rehearsal dinner?
 Deborah is so lucky.
 Remember our rehearsal dinner?

Generated response

Only Dialogue

I don't know. Maybe it's
 because I'm the one who's
 getting married.

With shared memory

Because I can hold my liquor
 better than you.

Statistics

Dataset Statistics

General	# of episodes	3,216
	# of sessions	17,679
Annotation	# of shared memories	4,206
	% of episodes with shared memory	61.57

Dataset Construction : **Collected 1,201 movie scripts** from IMsDb, Daily Script, and SimplyScripts.

Contribution

SHARE : A long-term **dialogue dataset** from movie scripts with shared memories
EPISODE : A long-term **dialogue framework** which summarizes persona, events and extracts shared memories.

Method

Memory

A

Persona:

-A is in a romantic relationship with B.

B

Persona:

-B is disrespectful towards A's curfew.

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Shared Memory :

-A and B have been dating for over a year.
 -B suggests to A that they should start seeing other people.

Dialogue History

Did you hear about the bash?

No I'm really grounded.
 When I got in late the other night, my father was waiting up for me.

If you don't want to go with me just say so. Say , 'B, I DON'T WANT TO BE WITH YOU' but don't use your dad as an excuse.

I'm not using him as an excuse.

Update

A

Persona:

- A was grounded by her father due to arriving home late.

B

Persona:

- B is frustrated by A's reliance on her father.

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Shared Memory :

- A and B were in a romantic relationship for over a year.
 - A and B's relationship broke up due to A's perceived over-reliance on her father.
 - B suggested to A that they should start seeing other people.

Selection

Memory + Dialogue history



-B is disrespectful towards A's curfew.
 -B suggests to A that they should start seeing other people.

Generation

Selected Memories

LLM

Yes you are. You always do. It's why we broke up. You always hide behind him.

Information Extraction

Persona:

- A is currently grounded by her father due to arriving home late.

Persona:

- B is frustrated by A's reliance on her father.

Shared Memory :

- A and B were in a relationship in the past which broke up due to A's perceived over-reliance on her father.

Experiment

By effectively managing **shared memory**, conversations in long-term sessions become **more engaging** and **coherent**.

Method	Session 5				Session 6			
	Coh.	Eng.	Clo.	Ref.	Coh.	Eng.	Clo.	Ref.
Llama 3.1-8B								
SHARE(No Shared)	2.53.	<u>2.28.</u>	1.70.		2.59.	<u>2.35.</u>	1.67.	
SHARE + ACCUM	2.58.	2.26.	<u>1.71.</u>	1.25.	2.59.	2.31.	<u>1.72.</u>	1.39.
SHARE + COMEDY	2.00.	1.30.	0.98.		2.06.	1.25.	1.00.	
SHARE + LLM-RSUM	<u>2.57.</u>	1.71.	1.15.		2.62.	1.70.	1.26.	
SHARE+ EPISODE	2.55.	2.37.	1.73.	1.58.	<u>2.60.</u>	2.36.	1.75.	1.76.

Case Study

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Shared Memory :

-A and B grew up in the same neighborhood and used to play the **balloon-popping game** together every summer at the local festival.

Whoa. I didn't expect to see you here.

Yeah, I just got back in town. Figured I'd drop by the old place. The festival's this weekend, right?

Don't tell me... you're **thinking about the balloon game?**