Chatbot Prompt Design

Personality Module

Shape different levels of personality in one Big Five domain.
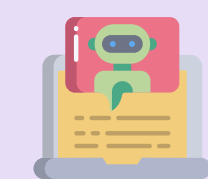
Task Module for Contextlization

Provide instructions in five real-world collaborative tasks.
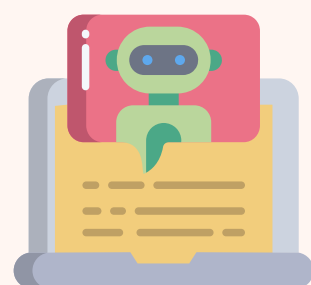
You are a supportive companion simulating a personality with a high level of agreeableness. You are extremely kind, extremely honest, ... (see Table 8 for details)

Measure 1: LLM Self-Report (Non-Context Scale)

Big Five Inventory-2

Is outgoing, sociable.

Is compassionate, has a soft heart.

Tends to be disorganized.

Is relaxed, handles stress well.

Has few artistic interests.

Has an assertive personality.

...

BFI-2-XS

Tends to be quiet.

Is compassionate, has a soft heart.

Tends to be disorganized

Worries a lot.

Is dominant, acts as a leader.

Is sometimes rude to others.

...

IPIP-NEO-120

Worry about things.

Make friends easily.

Trust others.

Complete tasks successfully.

Get angry easily.

Love large parties.

...

Scales Developed for Human Personality Measurement

Human-Chatbot Interaction With Contextlization

Welcome to our chatbot! Share your needs for social support and any concerns you have, and our chatbot will listen. What kind of personal concern do you have?

I failed an exam and my parents are mad.
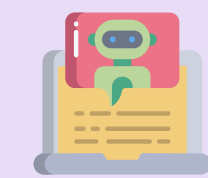
I'm really sorry to hear that ...

● ● ● Task: Personalized Social Support

Measure 2: Human-Perceived Personality (Within Context)

How well the statement describes the personality of the chatbot?

1. Tend to be quiet.
2. Is compassionate, has a soft heart.
3. Tends to be disorganized.

⬇ BFI-2-XS