

Conceptual example: diagnosis based on verbal sessions

Observed

X: How have you been feeling emotionally over the past few weeks?

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X: How about your sleep and appetite? Have you noticed any changes there?

Y: Feeling really overwhelmed. It's been affecting my mood a lot.

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Y: Sleeping a lot, but doesn't feel restful. No appetite, some days I forget to eat.

Generated

X: Have you noticed any changes in your thoughts or perceptions recently? For example, have you ever seen or heard things that others didn't seem to notice?

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X: Have you ever felt like people were out to get you, or that others were trying to control your mind or your actions in some way?

Y: Sometimes I hear voices. They're not always clear, but I can hear them talking, even when no one's around.

⋮

Y: I've often felt like that. Specifically, I'm worried my parents are conspiring to steal from me.

Y: Sometimes I hear voices, but it's more like white noise. Is that what you meant?

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Y: I had a manipulative boss once, but I don't think people are out to get me.

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Uncertainty comes from missing data!
Ability to autoregressively generate is equivalent to modeling "environment"



High risk of schizophrenia

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Low risk of schizophrenia

Main insight:
variability in inferred state across s = uncertainty in diagnosis