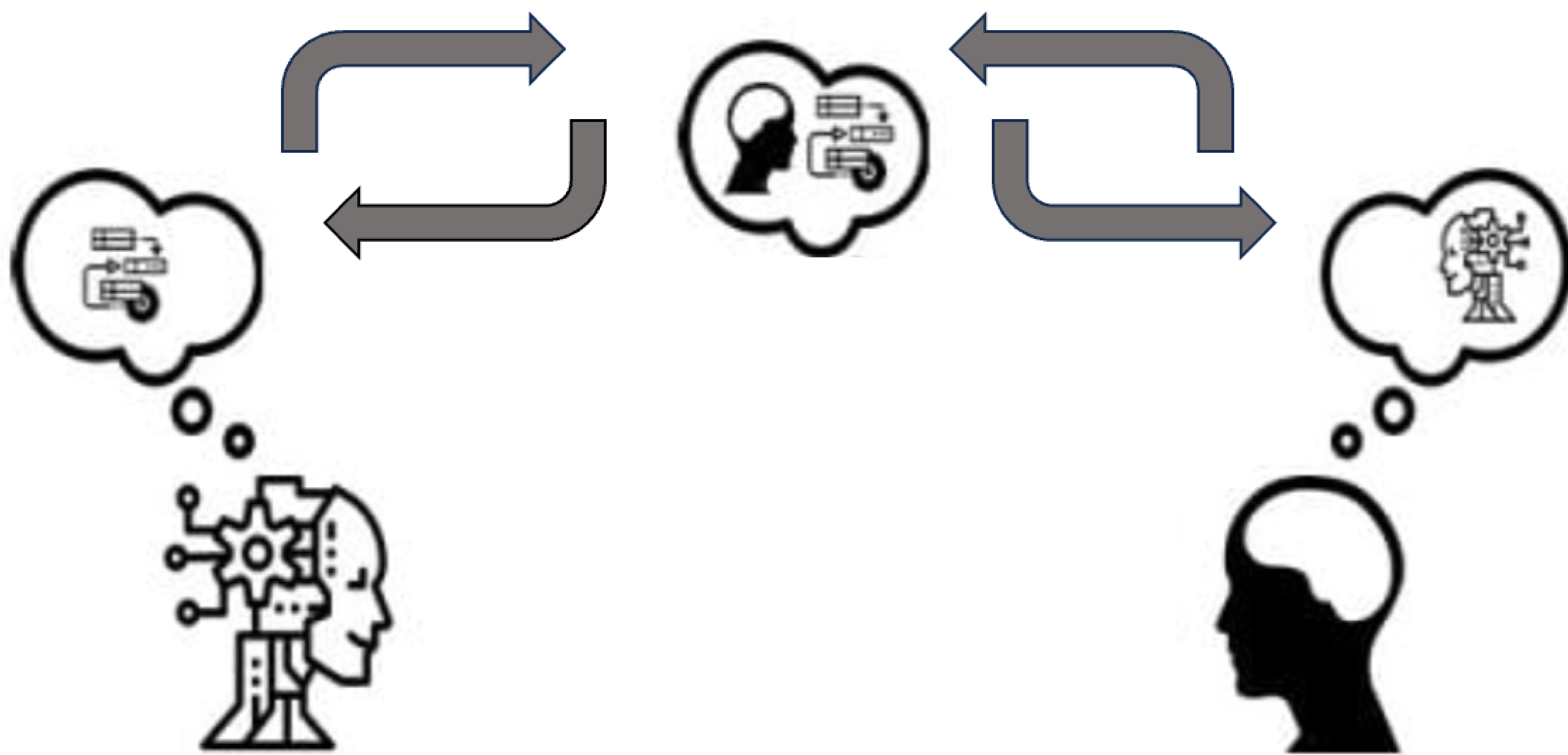


# CONVERSATIONAL AI FOR THE SOCIAL GOOD

**KEYWORDS**      Conversational AI - Memory - Mental Models - Reinforcement Learning

## PROJECT DESCRIPTION

This project is dedicated to addressing the absence of emotional communication in Conversational AI, by developing the underlying data-driven models that enable a robot to engage with humans in a socially aware manner. In this project, we will employ and develop reinforcement learning techniques to create memory models and use them in Human-Agent Interaction. We will investigate how the perspectives of human and agent memory differ and how we can create a hybrid memory model that is most beneficial in Human-Agent Systems.



## RESEARCH QUESTIONS

1. What sequence learning techniques perform best w.r.t. memory models?
2. How can we best represent memory models for conversational AI?
3. How can we use sequence learning techniques to predict memory models of humans?
4. How do we create a hybrid Human-Agent memory model?