Developing Conversational AI for Design Settings:

How to use conversational agents for increasing your creativity

Creativity and innovative thinking are highly desired skills in today's society individually and also in the context of teamwork. One essential part of creativity is idea generation where people explore a given problem's solution space. The most known techniques for idea generation include generating ideas from memory and by direct association (inventory and association), identifying and breaking common assumptions (provocative) or using analogies (confrontative). In human-human interaction, these process, however, is often burdened by social factors such as criticism, dominance, judgment, comparison - to name a few. Could technology help here?

Conversational agents have been proved to tackle the inhibiting social factors and provide an open and judgment-free conversational setting. They can also adapt to changing interactions, steer interaction to be more productive, and be tailored to a specific topic of interest.

Within this project, you will look into the literature on creative facilitation to implement a computational framework to maximize solution space exploration. To achieve this, you will use data-driven methods to implement and evaluate a dialogue system. It is up to you whether the system will interact with an individual or a team. To adjust the project's scope, it is advisable to focus on the specific case and/or group of users.

Sound like a project that suits your interests and skills? Let's set up a meeting to get to know each other.
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