Conversational recommendation with natural language

Recommendation systems help people find what they need in the vast space of possibilities offered by e-commerce, and they are one of the most important everyday applications of AI. With the advent of large language models, it now becomes possible for such systems to process expressions of customer needs and preferences in natural language. Recommendation becomes a conversation similar to that with a human salesperson in a physical store.

In this project, you will construct a tool to generate such conversational interfaces and demonstrate it with different examples taken from real e-commerce sites. You will use a large language model (ChatGPT/GPT4) to generate large amounts of specific training data for training a natural language interface, based on results of current work at the EPFL AI Laboratory. You will integrate it with an earlier conversational interface and demonstrate it on several example domains.

The project requires some skills in machine learning and programming in Python and Java. The place of work is at the EPFL AI Laboratory.