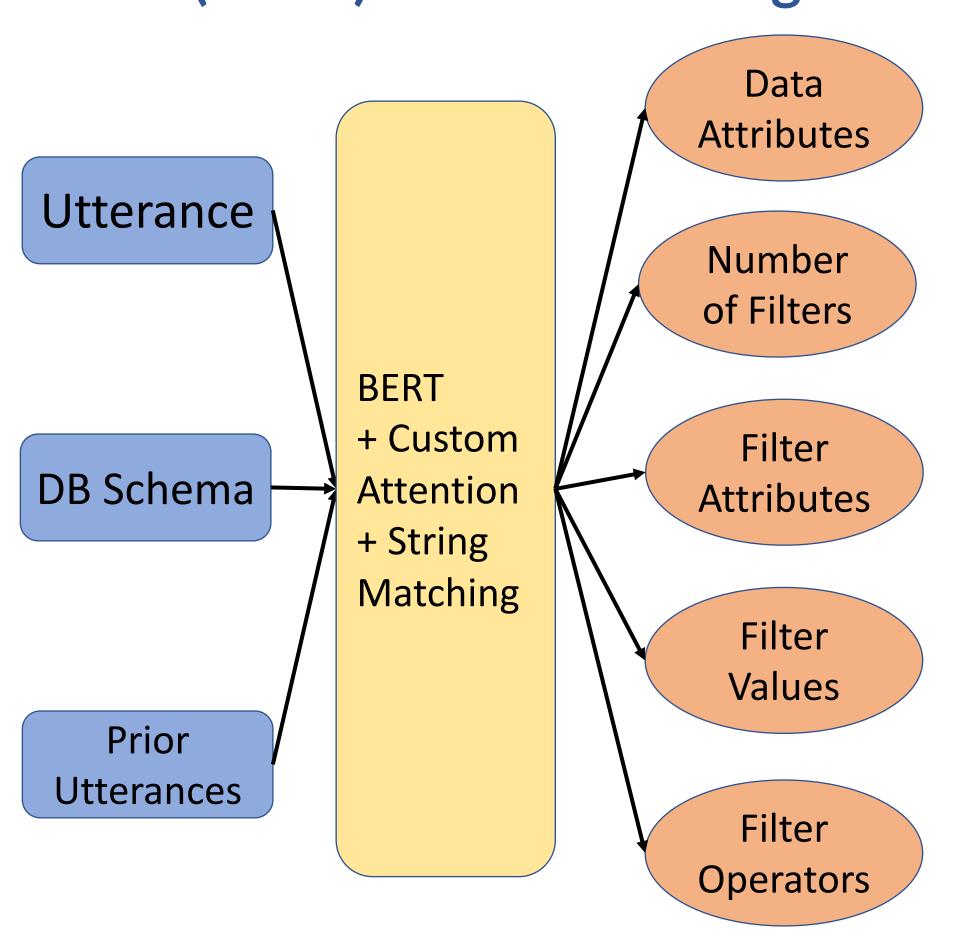
Inferring Visualization Intent from Conversation

BACKGROUND: A key step of exploratory data analysis (EDA) is visualization generation. As more people without technical backgrounds become interested in EDA and generating visualizations, we will need a no-code tool to solve their needs.

Key Concepts:

- 1. EDA can be viewed as a conversation.
- 2. No-code visualizations consist of visualization intent and encoding. We use this to build machine learning models.
- 3. Existing natural language to SQL datasets can be extended to create natural language to visualization datasets.
- 4. Each part of the visualization intent can be predicted with a Large Language Model (BERT) with fine-tuning.



Natural language conversations are predictive of visualization intent.



