Dianoia

LLM-Guided Probabilistic Modeling

From words to statistical insights

The Challenge in Policy Making

Translating socioeconomic descriptions into statistical models:

- Creating mathematical models by hand is time-consuming
- Requires domain expertise
- Inconsistent interpretations among experts
- Lack of transparency in decision-making

Dianoia: Automating Model Creation

- Converts natural language descriptions into statistical models
- III Enables data-driven decision-making
- Q Improves transparency and consistency in analysis

AI-Powered Model Generation

1. Large Language Models (LLMs)

Interpret complex socioeconomic natural language descriptions

2. Probabilistic Programming

Capture uncertainties in systems

3. GFlowNet Fine-tuning

Generate a distribution over diverse models

Helping Policy Analysis

- Saves time and resources
- Democratizes access to rigorous analysis
- Plimproves consistency in policy modeling
- Enables rapid iteration, auditing and scenario testing

Vision: Make it easier for people to turn ideas into analyzable statistical models