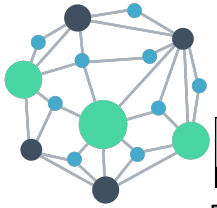
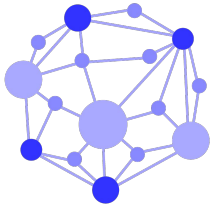
Input

Knowledge Graphs without semantics



Knowledge Graphs with semantics



SPARQL

DIGGER

Discovering Patterns

- Uploading the KG (RDF triples) for rule mining system
- Horn rules are of the form Body → Head
- Saving the logical rules in local system

Applying Entailment Regimes

RDF OWL

- Applying entailment regimes to the KG to enrich the mined rules
- Computing metrics for enriched mined rules

Discovering Patterns

SPARQL

Exploring Patterns

- SPARQL queries over KGs are used to evaluate the mined logical rules
- Graphs plotting the distributions

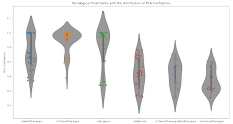
Categorizing Discovered Patterns

- Adhering to clinical guidelines
- Inaccuracy in data
- Potential missing relationships

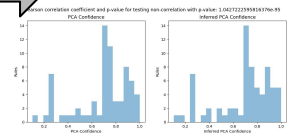
Analyzing Patterns

Output

Distribution of PCA for Definitions in Head



Null Hypothesis Test



Demonstration of Analysis