



Dataset

Learn-and-Join
Algorithm

Compute empirical
frequencies

Bayes Net Structure

Bayes Net Parameters

Learned Template
Bayes net

Relevant Features/
Family Configurations

Feature Weights
= log-cps or
log-differences

Components of
Log-linear Model

Query
= Target Node Value+
Input Variable Values.

Feature Function
= Feature Count or
Feature Frequency

Prediction
= weighted sum of
Feature Function Values

Log-linear inference



Learning



Closed-Form Computation