Interactive Visualisation of Bayesian Networks

**Topic**

Bayesian Networks offer a nice and intuitive framework for probabilistic reasoning and their graphical nature can often be interpreted quite nicely. We have a d3.js based visualization which allows us to create and modify networks used by our inference implementation PRIMO ([https://gitlab.ub.uni-bielefeld.de/scs/PRIMO](https://gitlab.ub.uni-bielefeld.de/scs/PRIMO)) while performing inferences, but it can still be improved to be even more user friendly or be applicable to a wider range of networks (e.g. Bayesian Decision Networks).

**Tasks**

- Extent or redo the existing web-based visualization prototype.
- (Optional) Improve or extend the existing PRIMO backend.

**Useful skills**

- Basic knowledge of Bayesian Networks and probabilistic inference
- Experience with web-based visualization (e.g. d3.js, react)

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