Master's thesis, or similar, in machine learning

Background

Whole AB is a fast-growing startup company, based on 11 years of research regarding complex relations in multi-variable analysis of people, groups, and organizations. The Whole model measures organizational health and the employees' psychosocial health in different parts of an organization and finds the root causes, even when the causes are not in the area of the original questions. With repeated surveys, the tool can also follow progress over time.

Data

We have collected data from 10 000 real-life questionnaires, consisting of approximately 200 questions, from large Swedish companies and governments and a reference survey through SCB (Statistics Sweden). To the responses belong metadata regarding the role, age, etc. We have manual analyses of several surveys, where data and analysis are connected.

Aims

Exploratory find ways for AI and machine learning to either provide a better basis for the manual analysis or fully automate parts of the analysis. Ideas:
- Discover and classify irregular answer distributions, such as outliers, twin peaks, and wide distributions.
- Find relations between more factors, that our model has not taken into account yet.

An implemented prototype for verification in our system would be an advantage, but not a requirement.

Prerequisites
- Good knowledge of machine learning and statistics
- Preferably good programming skills

Research Team
- Michael Rosander, assistant professor, Linköping University and fonder, Whole AB
- Stefan Blomberg, licensed psychologist; researcher, Linköping University and founder, Whole AB

For a presentation of the full team, please see http://www.whole.se/om-oss.

Contact
- Christian Delén, CTO, Whole AB, christian.delen@whole.se, +46 70 204 12 28

References

Please see http://www.whole.se/kunskapsbank.