Om Ava

Ava is a newly started and local start-up in Uppsala that develops a digital platform for support and guidance in educational- and professional decisions. Ava wants to make it easier for secondary- and high school students to make decisions that will make them satisfied in their future working life. We do this by digitalising coaching methods that help individuals find personal characteristics, interests, priorities and values. The mapping is then matched to suitable professional roles and provides information about grades, schools, programs and qualifications needed to reach a given vocational goal. The user is kept up to date on exactly what it can expect in the future labor market in terms of demand, salary and development opportunities through updated labour market information.

You can read more about the problem we are trying to address here (Swedish):

https://www.avachat.se

About the thesis:

Area 1
Improvement of existing algorithms for matching traits and skills to occupations with the purpose of guiding a single individual in choosing paths for the future. This type of algorithm could be improved by adding more parameters regarding the individuals personality or make us of existing resources from the Swedish Public Employment Services where over 4 million job postings could be analyzed to classify job positions to occupations and key words from these postings extracted and classified to the chosen parameters for matching with the help of machine learning.

Area 2
From a given position A in life (e.g High School) to a given position B (e.g working as an engineer) analyze and structure a vast amount of data containing information about types of education, admission statistics and requirements suggest different possible paths to take to reach that given point. The paths available will depend on not only the given points but also the individuals preferences as well as theirs qualifications and how these corresponds to statistics regarding admission and population. Because the complexity of the
data together with the numerous relationships that can exist between different types of educational providers this could be done with the help of building a knowledge graph, a network of entities, their properties and the relationships between these entities.

What are we looking for?

• One or more students who are about to do their master thesis (30HP) in technical IT work. Preferably from the program IT, STS or computer science.

Benefits

• Possibility to compensation as agreed
• Free framework to formulate and structure the project given the wishes of administrators at the University and Ava
• Workplace in an office in central Uppsala
• Good access to test groups
• Insight into Uppsala’s start-up scene and entrepreneurial culture!
• Get to do a project that will really be used in practice after the end of the project
• Opportunity for further collaborations given a successful project

Contact

For more information, questions and interest please contact fred@avachat.se.