

## **Assignment 2**

**COIS 4400H**

**Fall 2021**

### **Question 1: 3 marks**

Find an application of Genetic Algorithms in an area of your choice. Summarize the approach, and describe its advantages, disadvantages and results. (300 to 500 words)

### **Question 2: 3 marks**

Compare Decision Trees and Genetic Algorithms. Look for commonalities or differences of the two approaches. Describe three things they have in common and describe three differences, as related to data mining. A table with an overview of these comparisons is fine.

### **Question 3: 4 marks**

Investigate Model evaluation criteria discussed in the book. For two of the criteria (your choice), describe two different scenarios where the criteria works well and should therefore be applied, and two where it does not. The key is to connect the criteria to characteristics of the dataset. (300 to 500 words)