**Artificial Intelligence Continuous Assessment 2**

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**C13446122**

**“Write a short 1 page description of how you solved the problem and any decisions you had to make”.**

When deciding how best to solve the artificial intelligence classifier of the dataset provided. First I look at the files provided for the assessment. The file “datadescription.txt” contains the information revolving around what each column holds. For example, this file tells us that the first column in the file “queries.txt” contains information relating to the id. So, using this knowledge I used Python to read the file “datadescription.txt” to read the files header information provided and store it in an array. This array was then used to write to the file “datadescription.txt” providing a header to each column to make it not necessary to go to the file “datadescription.txt” to find out what each column of data was meant to represent in “queries.txt”. After this I looked at developing a classifier for the dataset of information that was provided in “queries.txt”. By developing a classifier, I could make a prediction based on a certain subset of data. I had to look in the best way to develop this information and what sort of information I wanted to show in the classifier as there are number of fields and provide this data in a file where each line provides the query id followed by a comma followed by my classifier prediction for that query, for example in the style of <id>, <prediction>. As there are several libraries in Python that helps in the creation of a classifier. However, base on my limited time and accessibility to answering this problem I tried to use python libraries to tackle this problem to the best of my ability. As I had experience with these libraries from the last assessment. Using my libraries, I could create a classifier that would be able to make a prediction based on a certain subset of data. The data I used to make my prediction was revolved around education where I set it to look for any id that have a “tertiary” level education and used this to create the “Prediction” column where it would set success as “TypeA” as I presume this is how you wanted the prediction to be declared and the failure would be set as “TypeB”. In order words, any id that did not have a third level education. After I created this data and I then wrote a method of displaying this data into a text file called “C13446122.txt” using Python, which allowed me to store this file in a subdirectory labelled “solutions”.