**[DAB402 - Capstone Project](https://lms.stclaircollege.ca/webapps/blackboard/execute/launcher?type=Course&id=_39477_1&url=" \t "_top)**

Professor - Muhammad Shahid

Assessment2 – Analytic Business problem formulation

**Prediction of mental health based on seriousness**

**Problem Statement:**

Understand the impact of poverty, violence, civil conflict, and migration on mental, neurological and substance use disorders and reduce the duration of untreated illness by developing culturally sensitive early interventions for mental, neurological and substance use disorders across settings.

**Data Science Insight:**

Data is the fuel for any technical engine these days. Looking into any segment, we see data everywhere. Data has become a natural resource for everything. Meaningful information derived from the data, understanding it is the important components to cycle up the problem. Looking at a broader perspective, a wide range of audience gets interacted and impressed when you show them some graphs with numbers. This is the power that data has. The meaningful information and the insights from the data are possible only by analysing the data. The analysis process that we make, tools and techniques we use is all that declare the success rating of our project.

Our plan is to analyse the data that is available for mental health in our society and provide a platform to the mental health distressed candidates to come up with their condition to get coached up or treated according to their situation. In order to achieve our data analysis goals and business activities related to our problem statement, we would be following the below steps:

* Identify the affected candidates by taking into consideration analysis of various factors like age, sex, family history, work history, type of treatment, demographics etc.
* Build a supervised model based on the correlated data and training it to predict such cases in future according to the input data given by the person from the platform.
* Taking the benefits from the results derived, a platform (website) will be created and this acts as a source to take the input of any future data to the model to predict the seriousness of the person and looking at this, we try to raise awareness in improving the conditions for those mental health disorders.

**Patterns involved:**

* Identifying the historical data from the resources observed
* Analysing the trends/deeper insights in the data by using the confirmed factors causing mental illness
* Training the model to predict the future data recorded in the platform provided (website)
* Giving respective solution based on the seriousness observed for mental illness condition

**Success Criteria:**

* A definitive appropriate model that predicts the different forms of future data recorded in the platform (website) by making use of the available tools and technologies
* Making the website readily available for public to use and creating an awareness to make use of it
* Providing right solution to respective users

**References:**

(2020). Retrieved 6 February 2020, from <https://www.ibm.com/garage/method/practices/discover/business-problem-to-ai-data-science-solution>

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