**Capstone Project #1**

**Title: Autism Spectrum Disorder Screening**

**Problem**

Autism spectrum disorder (ASD) is a neurological and developmental disorder that begins early in childhood and lasts throughout a person's life. It affects how a person acts and interacts with others, communicates, and learns. As the research have shown that there is a significant increase in ASD (Autistic Spectrum Disorder) cases and often take significant amount of time in screening those cases. This leads to significant healthcare cost and delay in tackling these cases which very much brings down the success rate.

**Solution**

Solution is to provide a predictive model for screening ASD to help in classifying ASD or non ASD cases as early as possible based on the attributes provided in the dataset

**Client**

Client could be the health care provider/professional or could be parent/family who wants to screen their kids. Screening early would greatly reduce the healthcare cost and will have more success in handling ASD condition. Its proven that early intervention of Autism is the best treatment.

**Data**

Data has been taken from Kaggle repository and contains 1053 records. There are 18 attributes and are of type categorical, binary and continuous.

Case\_No, A1\_Score, A2\_Score, A3\_Score, A4\_Score, A5\_Score, A6\_Score, A7\_Score, A8\_Score, A9\_Score, A10\_Score, Age\_Mons, Qchat-10-Score, Sex, Ethnicity, Jaundice, Family\_mem\_with\_ASD, Who completed the test