

Diagnosing Autism Model

This project seeks to develop a model that can predict the likelihood of someone being diagnosed with autism based on previous survey data of 700 people who recorded their answers to some questions based on the DSM-5 manual. They also provided some demographics for us to include in our model. This model could be able to solve a problem where there might be someone who is unable to get access to a proper diagnosis or wants to know before seeing a doctor what their chances are of already having autism are so they answer these questions and receive a percentage as an answer. This could be useful for clinics or psychologists who could screen a client before fully referring them to a psychiatrist to help the client save time or money.

Limitations of this data are that in order for the model to be more accurate and usable, we have to assume that the data is fully accurate which means the people who haven't received a diagnosis for autism won't ever receive one at any other time in their life and aren't borderline on the spectrum. In this case we can create the model for experimentation purposes but if this were to be a full model that would be used in a real life setting it would be best to reach out to who collected the data and learn more about its accuracy.

The deliverables will be a slide deck and a project report for this capstone. The data comes from a study and the data is contained on kaggle at this link:
<https://www.kaggle.com/competitions/autismdiagnosis/overview>