Predicting Mental Health Issues in children

Sujen Kancherla
skancherla@ucsd.edu
Juo-Hsuan Chang
juc077@ucsd.edu

1 Introduction

Tell us what problem you are going to work on. Provide some motivation for your idea: why is it interesting? Does it have any practical significance? The use of internet among children has been a growing topic of discussion in the recent years, especially with social media and the unlimited content online that is feed to everyone. We think that looking at internet use among children can be very useful to understanding how using the internet may be correlated to a child's mental health as well as their physical health activites. To explore this, we chose the Child Mind institute - Problematic internet use Dataset.

2 Data Exploration and Inference

How do you plan to solve the problem you chose? How will you approach it differently from previous work? Remember that this project should take ~ 2 months of work!

Our main objective is to predict the Severity Impairment Index from a child's Internet use, physical activity, sleep, and other factors in the data that may correlate to their mental Health. We first want to explore the data and dive into the distributions of the habits of these children. The next step is to predict the mental health of the children based on these habits. Using an algorithm for inference.

2.1 Schedule

Divide your project into subtasks and estimate how much time each will take. Definitely budget some time for writing the final report, as well as performing an in-depth analysis of any models you build and/or data you collect. Sample schedule below:

1. Acquire and pre-process data (1 week)
2. Perform EDA on Data (1 week)
3. Create Inference Model for prediction task (1 Week)
4. Work on final reports (1 week)

Note that some steps might be shorter or longer than depending on the type of project you pursue.

3 Data

Kaggle Dataset:
Child Mind Institute Data