

MAIS 202: Project Proposal
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1. Dataset chosen:

<https://www.kaggle.com/borapajo/food-choices>

The dataset I have chosen is the above one. I am very interested in nutrition, however for students, making the right choices when it comes to nutrition is not always easy. Nutrition studies and advice is sometimes hard to apply to a student for many reasons such as the lack of sophisticated kitchen equipment, financial reasons and most importantly lack of time.

By studying this dataset, I am hoping to find the unhealthiest parts of a student lifestyle and the easiest ways to approach these.

2. Methodology

The dataset provides a huge amount of information. The quality of students' lifestyle and how healthy it is may be influenced by many of these parameters. Some may be more relevant than others and may have a more direct effect.

The model I plan on using so far is neural networks. Since this dataset does not follow any obvious distribution and since the relationship between all the parameters seems very complex, a neural network model seems most adapted to deal with it.

My plan for the final project is an iOS application. I already have experience developing iOS applications and I believe it is the most direct way of communicating with those that would be interested in the result of this project (i.e. students). I will be using Swift to code the application and XCode as my IDE. The app should showcase the main conclusions I can draw from the dataset. It would also have some form of survey which students would be able to fill in and where the app can give feedback on the healthy and unhealthy choices a student is making and give tips on how to improve their lifestyle.