

- 10/22/2018

*Idea #1: Effects of obesity and an unhealthy lifestyle on the executive function of Malaysian adolescents*

#### **Data**

[https://figshare.com/articles/Obesity\\_and\\_unhealthy\\_lifestyle\\_associated\\_with\\_poor\\_executive\\_function\\_among\\_Malaysian\\_adolescents/6150290](https://figshare.com/articles/Obesity_and_unhealthy_lifestyle_associated_with_poor_executive_function_among_Malaysian_adolescents/6150290)

#### **Problem**

Executive functions include basic cognitive processes such as paying attention, organizing and planning, staying focused on tasks, regulating emotions, and monitoring one's own behavior.

This dataset provides information about the cognitive functioning of 513 Malaysian adolescents aged 12 – 16 (CF score; based on three separate tests) with respect to various lifestyle factors including BMI, quality of sleep, and socioeconomic status.

I would like to determine the relationship between CF scores and each of the variables in an effort to predict which factors are most important in overall cognitive functioning.

#### **Client**

A specific client could be a private and public school board in Malaysia that can use this analysis and combine it with data of students' academic success to establish supportive programs for students.

**How to solve + Deliverables:** TBD

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*Idea #2: Financial Well-Being/Stability*

#### **Data**

[www.consumerfinance.gov/data-research/financial-well-being-survey-data/](http://www.consumerfinance.gov/data-research/financial-well-being-survey-data/)

#### **Problem**

Financial well-being is defined as having a sense of financial security and the freedom of choice.

This dataset provides 6,400 responses to a “Financial Well-Being” survey by the Consumer Financial Protection Bureau, with details about income and employment and typical financial attitudes and behaviors, as well. A file codebook is provided as well.

I would like to find the relationship(s) between well-being scores, and attitudes and behaviors (more so that a factor such as household size).

#### **Client**

The high school curriculum in the United States never teaches students how to manage or handle money, and students must either depend on their family to figure it out, or turn to the Internet. The Financial Diet on YouTube is one such source of information, with videos targeted to a demographic of 18 – 30. This analysis could help the creators of The Financial Diet predict which subjects to focus on when making their videos in an effort to help young adults handle money better, and boost their engagement and revenue.

**How to solve + Deliverables:** TBD

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*Idea #3:*

**Data**

<https://www.kaggle.com/san-francisco/sf-police-calls-for-service-and-incidents>

**Problem**

**Client**

**How to solve + Deliverables:** TBD

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