## Financial Well-being in Ameri

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\*Based on 2017's financial well-b

#### Project Overview

### **Project Purpose / Description**

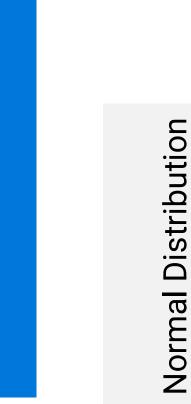
- Financial Well-Being in America (2017) dataset,
- Obtained from Data.gov. (https://www.consumerfinance research/financial-well-being-survey-data/)
- Interested in learning about financial wellbeing in Ameri
- We looked at specific variables to understand their impa

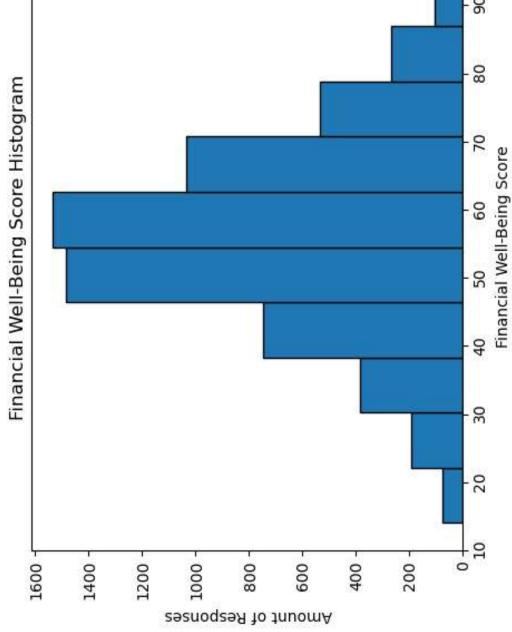
#### Project Overview

### Hypothesis

There is moderate to strong correlation between the financ score and the following variables:

- Shocking life events (Household difficulty or not)
- Kids / No children
- Gift-giving
- Self-control
- Savings
- Having money in case of need





### Overview of Data Collection, Cleant **Exploration Process**

#### Project Overview

### Data Exploration:

- Analyzed the columns
- Observed the data range in each colum

### Data Cleanup:

- Checked for duplicates
- Dropped N/A data
- **Dropped Outliers**
- Renamed Columns

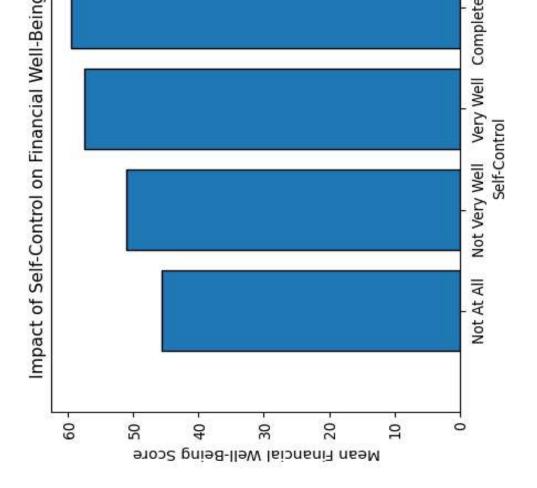
#### Project Overview

## Approach taken to achieve goals

- We adopted an Agile mindset/approach to examine the Financ data set we were interested in
- We created a project schedule, assigned tasks based on meeti and executed them individually, focusing on the topics we wan
- We split up variables to have smaller data sets to drill down int sets, created data frames, and created visualizations to illustra
- Afterward, we reconvened to present and analyze our findings, ultimately formed the basis of our analysis/presentation

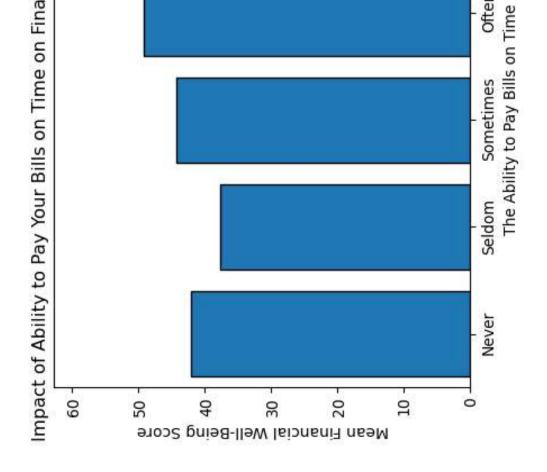
### Self-Control Analysis

Survey Statement: I am good at resisting temptation.



## Ability to Pay Bills on Time Analysis

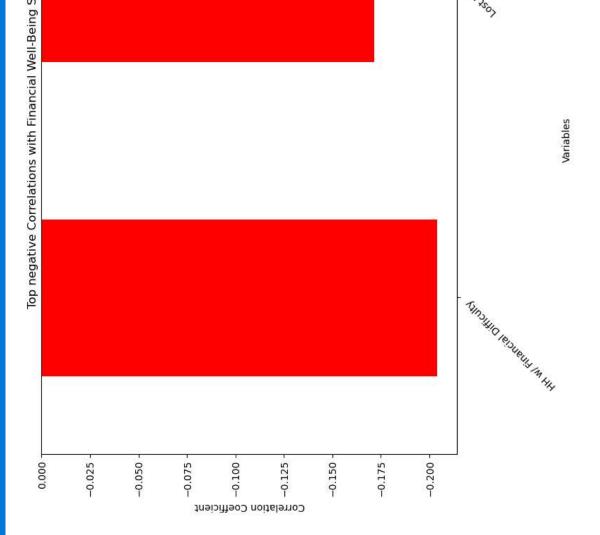
Survey Statement: I Pay My Bills on Time.



# What are the major shocks in life that affect financial well

### Summary of Results

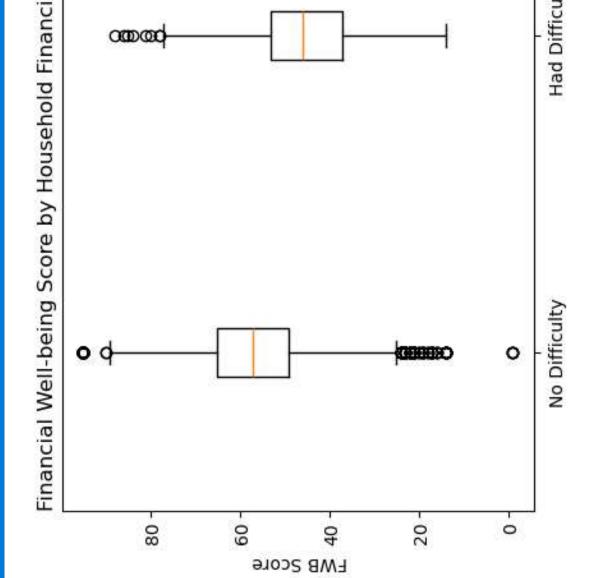
These findings support the intuitive idea that increased financial stressors, such as difficulty paying bills or unemployment, are likely to diminish an individual's overall financial well-being.



# What are the major shocks in life that affect financial well

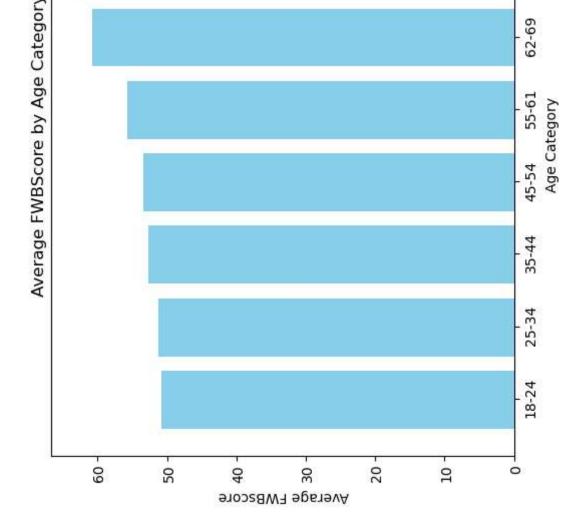
### Summary of Results

- The box plot suggests that financial difficulties are associated with a broader and generally lower range of Financial Well-being Scores.
- Correlation between
  Household with Difficulty &
  Financial Well-being Score
  had a relatively strong
  negative correlation at 0.20



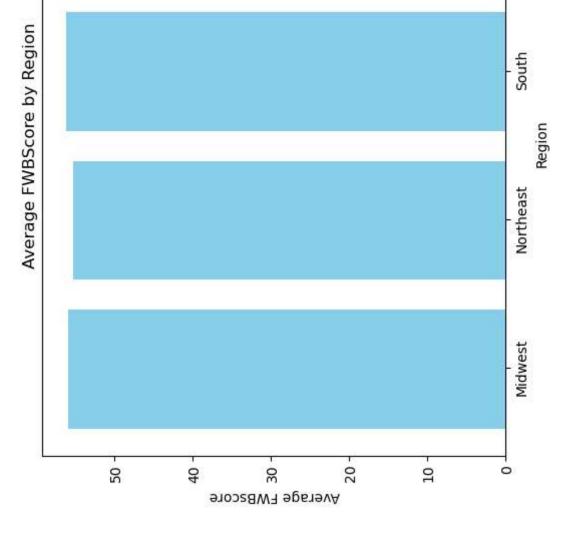
## Financial Wellbeing among Age-Groups

- The highest average Financial Wellbeing Score was for 75+ age group = (63.559783)
- The lowest average Financial Wellbeing Score was for 18-24 age group = 50.80



## Financial Wellbeing in US Regions

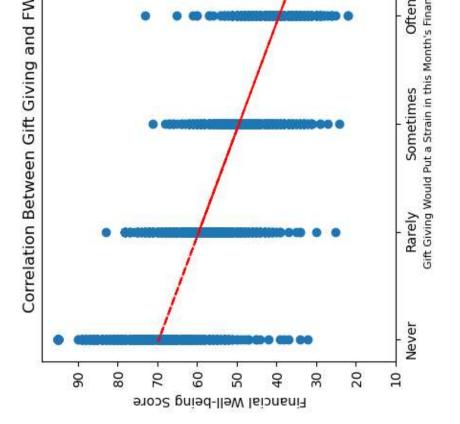
- Based on the bar chart, there
  does not appear to be
  significant variation in average
  financial well-being scores
  among the Midwest,
  Northeast, South, and West
  regions.
  - The highest average Financial Well-being Score is 56.49
    - The lowest average Financial Well-being Score is 55.30



# Would giving a gift put a strain on my finances for the m

### Summary of Results

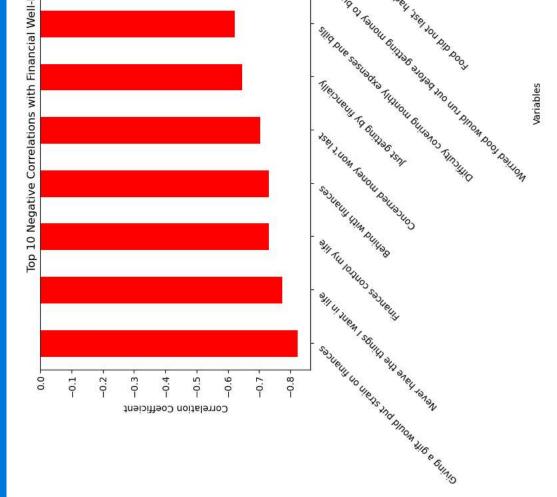
- The plot suggests a general trend where individuals who never or rarely experience financial strain from giftgiving tend to have higher FWB Scores, and those who often or always experience this strain tend to have lower scores as depicted by the downward trendline
- Correlation between Gift Giving and FWB Score is a strong negative correlation at -0.84



# What variables in the full data-set correlate the most negatively

### Summary of Results

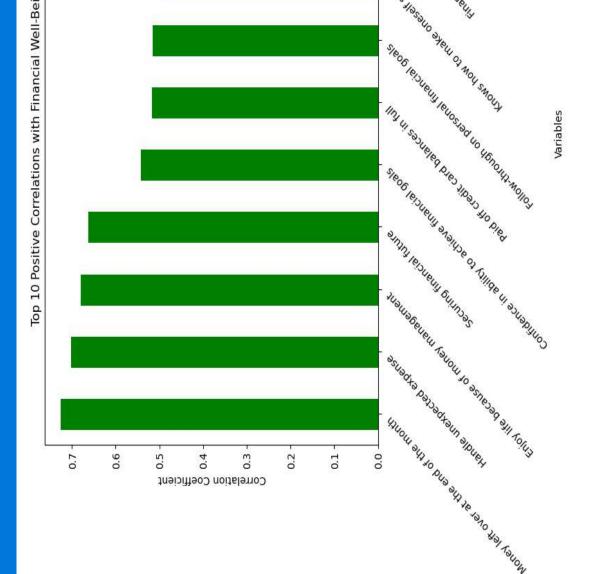
- This chart indicates that variables related to financial strain, lack of financial freedom, and psychological stress about finances are significantly negatively correlated with financial well-being.
- The stronger negative correlations, especially those closer to -0.84, suggest these factors are particularly impactful



# What variables in the full data-set correlate the most to

### Summary of Results

This chart reinforces the concept that effective money management, the ability to deal with financial surprises, and maintaining positive financial habits are all correlated with a higher sense of financial well-being.

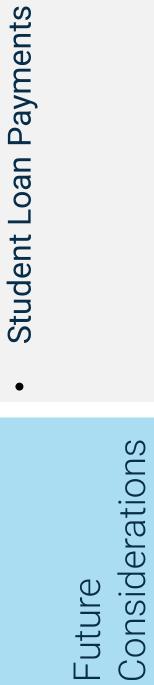


### Summary

#### Conclusion

- Our analysis sought to identify variables with a moderate to str to financial well-being. While our initial hypothesis considered factors, the results highlighted that the most significant correla universally spread across all anticipated areas. Notably, financ ability to navigate life's shocks, and maintaining savings under importance to financial well-being. On the other hand, the impa children, frugality, and self-control, while relevant, did not exhib correlation as expected.
- The analysis underscores the importance of financial buffer—h accessible funds for unexpected needs correlates positively wi being, underscoring its significance for peace of mind. Convers pressure of non-essential spending is highlighted by the prono correlation seen with financial strain from gift-giving. These fin nuanced financial landscape where stability and discretionary substantial but opposing effects on an individual's financial he

- When coding in our group and merging work into the main bran problems arose, which complicated the development process. of the key issues our team faced and how we resolved them: Encountered **Problems**
- Merge Conflicts: Editing and running of Jupyter Notebook series of unintended code changes that could cause merg frequent commits and manual merges were necessary to
- Integration Issues and common variables: Even when our Jupyter Notebook cells ran well on their own, when we sha modified the same DataSet, they did not integrate smooth were able to create individual copies, to ensure changes a columns in one portion of the analysis wouldn't impact oth
- **Delayed Integration**: When we worked in isolation for too I merging our changes, this contributed to integration challe



Future



Financial Knowledge Score