Capstone Speaker Notes

Topic: Mental Health

<u>Presentation:</u>

Hello, everyone. For my Capstone Project my topic is Mental Health. My Data Analysis will investigate if public assistance for individuals with Mental Illness effective, and how those resources can be improved?

This analysis is for individuals who may experience mental illness by evaluating how effectively public assistance and local resources support their needs.

- In the process of finding raw datasets, I went to Kaggle for my Data Source under the Mental Health search, and the data was provided in Excel format.

-link https://www.kaggle.com/datasets/michaelacorley/unemployment-and-mental-illness-survey

-The Dataset:

The data is comprised of 334 rows and 31 columns. These are the following questions asked from a Survey using "Survey Monkey" given to 334 individuals with no focus on a specific demographic.

As you can see most of the questions require Yes and No responses.

Data Cleansing: Slide 3

So, for the data to be processed it was inputted into numeric values of "0" as No and "1" as Yes.

In the cleansing process I decided to change these back to YES and No responses just to explore the analysis further. I also changed:

- Headings were very long so I shortened them to reduce space

- Font Changed to Arial for a professional look

- Placed NULL in blanks that had no response

- Deleted 1 column that was irrelevant (30 columns existing)

* I also used the following (IF) statement in Excel to change it back to the categorical data. - *=IF (U2: U335=0, "NO", "YES")*

Analysis: Slide 4

I used Excel and Power BI to take advantage of their visualization tools for this data. I choose different ailments and assistance that an individual may receive regarding their Mental Health.

I began with Depression to see what data stood out. According to WHO (World Health Organization) Depression is the leading cause of disability and ill health globally. ([Link](#))

You will see that **47.3%** Male and **52.6%** Female

Analysis: Slide 5

I then looked at how many are Welfare recipients by region and highlighted the states receiving the most aid which is in the South Atlantic Region.

63 people out of the 334 receive aid from those selected states.

Analysis: Slide 6

I then viewed how much yearly income is received from welfare from those hospitalized for Mental Illness by Age.

-18 to 29 Get $109,000

-30 to 44 Get $114,000

-45 to 60 Get $123,000

Over 60 Get $42,000

The welfare received from the ages over 60 get the least in assistance, with 45-60 year olds receiving the most at 123,00 a year.

Analysis: Slide 7

For the last total I compiled, I sought out who is Unemployed, Receives Food Stamps, On Section 8, and have Gaps in their resume. That totals to 197 participants, which is more than half who responded to the survey.

I also included if those individuals have a device available to them for internet access. And in some form, they do which gives me an indication its possible to connect other services than what they currently receive.

Conclusion: Slide 8

With all the data shown it's clear that public assistance that is available is not enough to aid the 334 individuals Mental Health

- From the Percentage of Depression in Male and Female

- To the South Region with the most Welfare

- 60 and up who's been Hospitalized with only $42,000 in aid

- 197 people who are unemployed, receive section 8, Foods Stamps and gaps in employment will make it difficult to find work, treatment and care without further resources for direction to be in a better position for a healthier lifestyle

Conclusion and Improvement: Slide 9

I propose that all the individuals would get better direction and help if there was an APP to help Search and give Links to partnerships that endorse resources depending on these key areas.

- Location of individuals needing aid (Search by City/State)

- Men and Women's Groups (Search by Mental Illness)

- Hospitals that offer Therapy /Outpatient Groups (For previous or post Hospitalizations

- Elder care and activities/Transportation (Ages 60 and up)

- Local Churches for Food and Skills Classes (Unemployed)

- With Device Access, there are Several Free Apps to help manage Mental health challenges based on the specific symptom