

PROJECT OVERVIEW AND *Design*

Public Health Awareness Campaign



The right to health is mandatory for each and every person to lead a healthy and peaceful disease free quality life but unfortunately there is a imbalance in society due to which properawareness regarding health is not accessible among the peoples .To reach the right of access to good quality palliative care, raising awareness is a main key of the public health approach towards health So here our objective is to design an overview analysis of how the public health awareness campaigns works and brings out the effective desired result towards the implementing the health awareness among peoples through patterns, trends and visualizations for better understanding readability .

Team Details

Mentor:

Mrs.P.Chandralekha

Leader:

Dharshini J

Members:	Kushboo A Gayathri N Deepika S Gayathri P
Problem Description	Analyse data from public health awareness campaigns to measure their effectiveness in reaching the target audience and increasing awareness.
Phase:	Phase 1: Problem definition and Design Thinking

Project Details on Problems and Solutions

Background

Elaborate on the problem that this project is aiming to bring out the effective patterns and trends obtained from the analysis of public health awareness campaigns .



Goals

To observe the performance which have been conducted by the survey on Mental health in Tech Workplace in 2014 dataset provided, to check how effectively public health awareness campaigns have been working so far in raising awareness among people towards health .



Analysis Objectives

- ◆ Identifying trends and patterns in public health awareness campaigns conducted.
- ◆ To provide better insights which can help government and organizations to improvise the quality of campaigns conducted to implement an effective health awareness campaigns.

Deliverables

- ☐ Statistical analysis report on the public health awareness campaigns
- ☐ Insights and patterns observed from the data.
- ☐ Providing solution to sort out the problem arises by specifying the essential ways.



Data collection :

The data has to be collected for analysis of public health awareness campaigns, The datasets have to be reliable and valid for further analysis and research.



Problem :

The dataset containing vast amount of data which may consists of lots of error and missing value, hence our first work is to cleanse the data .It can be acheived by following methods :-

```
[14]: if data.isnull().sum().sum() == 0 :  
      print ('There is no missing data in our dataset')  
      else:  
      print('There is {} missing data in our dataset '.format(data.isnull().sum().sum()))  
  
There is 1892 missing data in our dataset  
  
[6]: frame = pd.concat([data.isnull().sum(), data.nunique(), data.dtypes], axis = 1, sort= False)  
      frame  
  
[6]:
```

	0	1	2
Timestamp	0	884	object
Age	0	53	int64
Gender	0	49	object
Country	0	48	object
state	515	45	object
self_employed	18	2	object
family_history	0	2	object
treatment	0	2	object
work_interfere	264	4	object
no_employees	0	6	object
remote_work	0	2	object

Code integration:

CODE INTEGRATION

1

DATA PROCESSING

The raw data has to be processed for analysis of mental health prediction.

2

DATA CLEANING

The raw data may be prone to error hence it has to be cleansed.

3

DATA ANALYSIS

All the data has to be clearly analyzed in order to obtain and evaluate the performance of mental health prediction dataset.

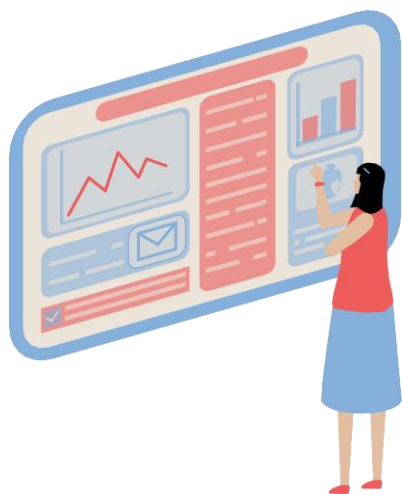
4

COMMUNICATION

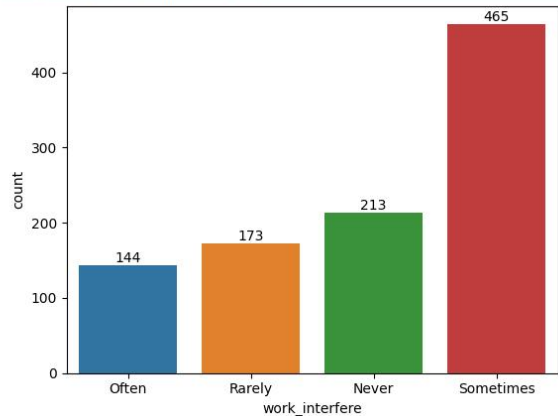
This can be achieved by insights, patterns and trends obtained from the mental health prediction dataset.

Visualization Strategy

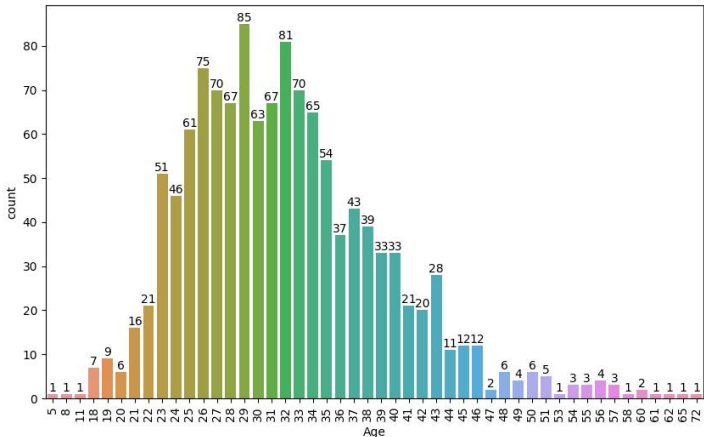
The design can be created after making the error free clean data. In this phase, we have to create data visualizations such as insights, patterns and trends. The data can be visualized using various graphs and charts like pie chart, scatter plot, density plot, line plot, contour plot, histogram etc. It can be supported by several packages, which can be done by the following way:



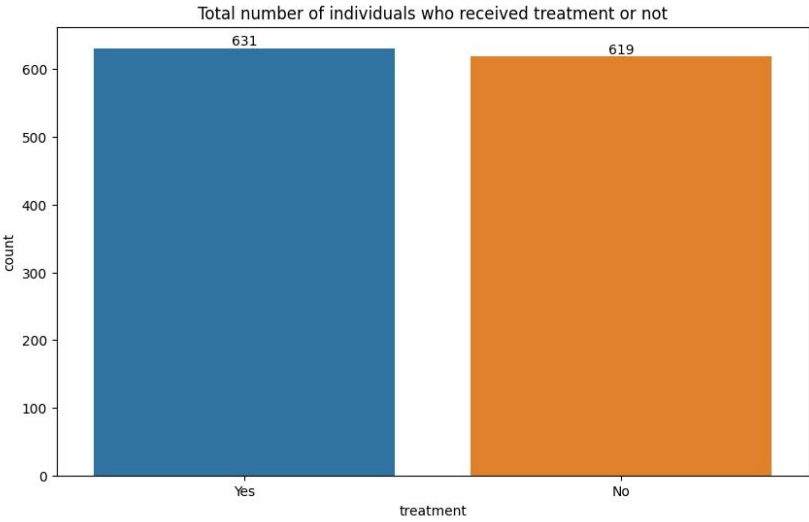
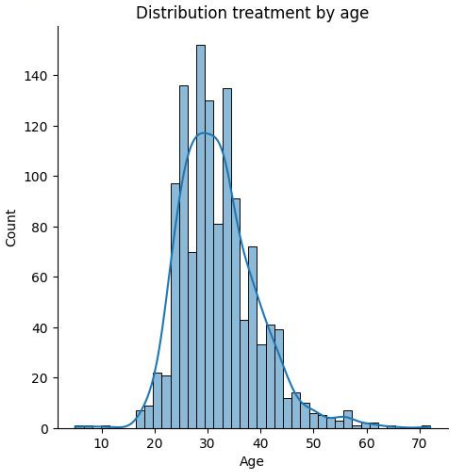
```
will be removed in a future version. Use isinstance(dtype, CategoricalDtype) instead
if pd.api.types.is_categorical_dtype(vector):
C:\Users\admin\AppData\Local\Programs\Python\Python311\Lib\site-packages\seaborn\_oldcore.py:149
will be removed in a future version. Use isinstance(dtype, CategoricalDtype) instead
if pd.api.types.is_categorical_dtype(vector):
```



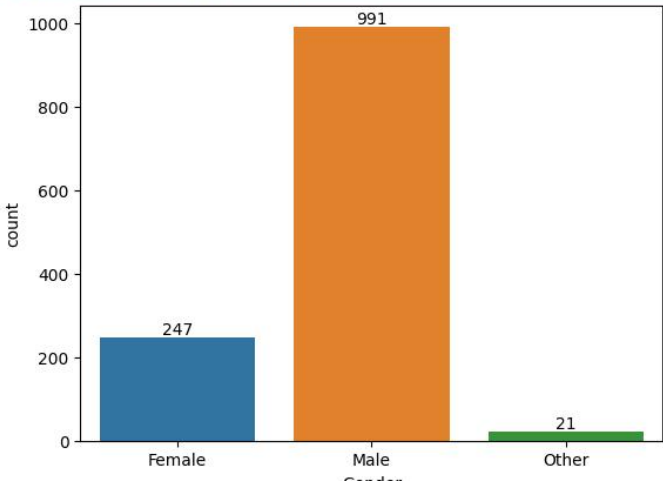
```
if pd.api.types.is_categorical_dtype(vector):
```




```
with pd.option_context('mode.use_inf_as_na', True):  
<Figure size 1000x600 with 0 Axes>
```



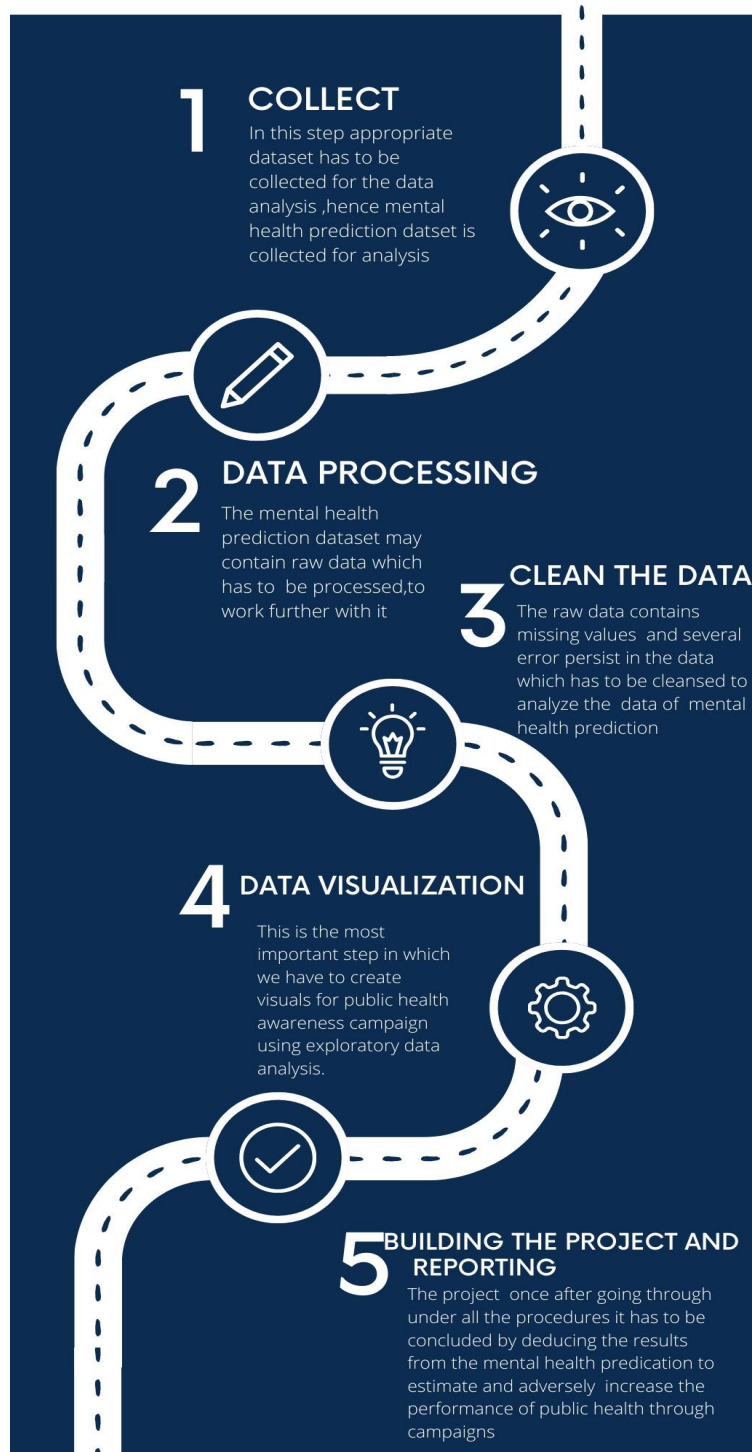
```
if pd.api.types.is_categorical_dtype(vector):  
C:\Users\admin\AppData\Local\Programs\Python\Python311\Lib\site-packages\seaborn\_oldcore.py:1498: FutureWarning:  
will be removed in a future version. Use isinstance(dtype, CategoricalDtype) instead  
if pd.api.types.is_categorical_dtype(vector):  
C:\Users\admin\AppData\Local\Programs\Python\Python311\Lib\site-packages\seaborn\_oldcore.py:1498: FutureWarning:  
will be removed in a future version. Use isinstance(dtype, CategoricalDtype) instead  
if pd.api.types.is_categorical_dtype(vector):
```



Flowchart of Design



DESIGN PROCESS



Importance of Public Health Awareness Campaigns

By raising public awareness about important health issues, healthcare campaigns can reduce ill-health disease and premature deaths from diseases that are treatable if they are addressed in time. It helps the remote area people who are not much aware of the diseases to prevented and recover from it further. The importance of health awareness campaigns lies ingiving



How public health awareness campaigns saved millions of lives

Health promotion programs may have a range of immediate effects on individuals and on social and physical settings. For individuals, the immediate effects include improved health knowledge, skills and motivation, and changes to health actions and behaviour. Due to which many peoples got the knowledge to prevent themselves from various diseases and got recovered too. In this way it saves millions of lives ,brings happiness and peaceful healthy life among families.



Conclusion

Hence public health awareness plays a major role in every peoples life to lead a disease free healthier life ,through analysis of our data we get to know how efficiently and effectively these campaigns have worked to promote health awareness among public. Through the analysis we obtain the performance and results through visuals with a better readability.



