# INTRODUCTION

Suicide is a complex phenomenon influenced by Various Social, economic, cultival and psychological bactors in india, several reasons have been indertified as contributing to the high rates of suicide from 2002 to 2012. It's crucial to approach this topic with sensitivity and care. Suicides is a complex issue influenced by Various factors such as mental health, Socio-economic Conditions, and cultural norms.

In india, Suicide rates have been a Concurr. with factors like stress, depression, financial difficulties and social foressive contributing to the problem. Mental health awareness and accessible support services are essential in addressing this issue effectively.

Despire efforts to address it. Suicide states sumain high highlighting the need for comprehensive interventions and increased mental health support services across the country oreducing stigma, addressing socioeconomissionities promoting sesilience and implementing prevention measure tailored to the specific riseds of different demographic groups.

ucides un India Visualizations Using Tableau.

# Project flow

\* Using the analysed chart creation of Dash board is done.

\* Saving and vasualizing the final dashboard un the personal tableau public profile.

To accomplish this, we have to complete all the activities and tasks listed below.

- \* working with the Data Set.
  - · Understand the Data Set.
  - · Loading the Data Set.
- \* Visualizations of Suicides un India (2001 2012) -
- \* Problem statement 1: why are suicides Happening?
- \* Paroblum Statement 2: Suicides per year (forcecasing)
- \* peroblem Statement 3: Classification on basics of age group.
- \* Problem Statement 4: State wise suicides
  Counts for different occasions.

Overview:

Europe Stress: - Economic unstability, poverty, debt, Suicide. In a country like indice where a large Population still dives below the poverty dire, financial difficulties can become overwhelming.

\* Family Issues: - Marital discord, domestic violence, conflicts with parents or in-laws, and strained sulationships within the family can contribute to feelings of hopelessness and despair.

\* Mental health Disorder: Depression, anxiety, Schirophrenia, especially sugarding education, concert and lack of awareness and limited access to mental health services.

\* Social pressure: Posessure to conform to societal expections, especially sugarding education, cooper and marriage can read to feelings of inadequary and failure, particularly among yoth.

\* Substance Abuse: Alcohol and doing abuse are common coping mechanism for delling with stress and trauma, but they can exacerbate mental health problems and increase the risk of suicides.

Complex and multifacted, as it varies greatly among individuals and can be influenced by a combination of tactors. However, hove are some common purpose or motivations that viesearches and bychogoists have identified \* Escape from pain: Many individuals contemplate suicide as a means to escape from intense emotional or physical pain. This pain tould be due to various factors such as mental illness, trauma, chronic illness or overwhelming stressors in life.

that death is the only solution to their problems and that it will bring them relief from their pain.

Few more factors contributing to suicides is India dwing the period from 2001 to 2012;

Stigmatization of mental allness: widespound stigma Surroundings mental health issues powerts many andividual from seeking help of speaking openly about their

Gender snequality: - Gender - based discrimination, violence and against women, and sustricted acus to susousces and Oppurtunities for wome contribute to higher reales of Suicide among female, especially in sural areas. Lack of Social support: social isolation, doneliness and a lack of support network exaconate feelings of despair and hopelessness - particularly among vulnerable Populations such as the elderly or LGBTQ + individuals Totauma and Abuse: Expounces of Hauma including Childhood abuse . sereual assault or witnessing violence Can have long-lasting psychological effects and increase the suisk of suicide

Health Issue: Choric physical illness, disabilities and terminal illness can lead to emotional distress and feelings of being a burden on jamily members. contributing to suicidal ideation.

Media Influence: Sensationalized media converage of Suicide especially celebrity suicides, can lead to Copy cat behaviour and increased suicide rates particularly among impousionable individuals.

Collection and Extraction from Database: data Data collection in busieness decision making. Data collection is the process of gathering

Strategic planning suscarch and other purpose pata Cataction is the process of obtaining naw data from a Source and explicating that data somewhere else. Collect the dataset:

A doubaset is a set of collection of data. This set is normally presented in a tabular pattern -Every column discribles a particular variables. And each stow corresponds to a given number of data set as per given question. This is a part of data management. Understand the data:

As its core, data can be defined as Units of information often numeric collected thorough observation or sugistration. These units can stands for sual-caloud entities such as undividuals also or opjects. The name of file is undia upidated suicides in india 2001 to 2012 .

Preparation:

Combining Data psuparcation is the psuccess of gathering Used in Structing and organizing data so it can be Visuallizations intelligence analytics and data

and transforming now data policy to process of cleaning analysis it is an important step prior to processing and officer involves suformatting data, making Corrections to data combining datasets to enrich data.

Psupare the data for Visualization:

Hentity the data table.

The first now of the table should be "header". And missing header.

Remove multiple header and merge them into one Columns data types and detections.

Clean any annotations in the column values Bank cells and annotations.

All slows must have same amount of columns matching the column header.

Data Visulization:

data Data visualization is the supresentation of through use of common graphics such as charts. Visual displays of information communicate complex data sellationships and data - diven insights in a way that is easy and understand.

Pata visualizations is the process of Guating graphical superwentation of data in order to help people Understand and explore the information. The goal of data visualization is to make complex data sets more accessible intentive and easier to interpret By lusing visual elements such as charts, graphs and maps, data Visualization can help people quickly identity pattern, trends and efitters in the data.

# Sucides per year (Folecasting)

Statistical modeling and consideration of various tatistical modeling and consideration of various factors that may influence trends over time while & can't provide.

Technological Advances: Advances in technology, including Social Advances: Advances

state media and othline platform may influence suicides rates Particularly among younger populations. Monitoring technological treads can provide insights for forecasting. Data Quality and Reporting practices: Enswing the accuracy and suliability forecasts. Improvements in data collection methods and supporting practices can enhance the validity of forecasting models.

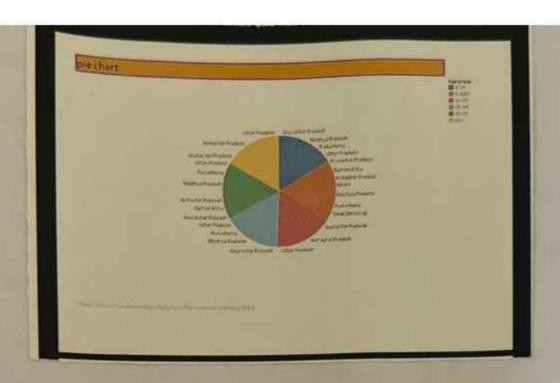
By incorporating these factors into forecasting models and sugularly updating the analysis. with new data; suseauches and policy makeus can generate more accurate poudictions of future suicides states. However, its important to net that forecasting Suicide states is in herently challenging due to the multipaceted nature of the phenomenon and the cinfluence of Unposedictable events.

Crucial Data: Analyzing historical suicide data is Understanding how suicide states have changed in the can help in forecasting future trends.

Seasonality: Suicide value may enhibit seasonal Variation with certain times of the year experiencing higher state than other. Accounting for stasonality can comprove the accuracy of forecasts.

Economic undirators: Economic factors such as unemployed outers, GDP growth, and poverty levels can influence suicide nates. In corporating economic indicators into forecasting models can help fredict future trends.

Social and Remographic Factors: Changes in Social dynamics demographics and cultural factors may impact suicides talks: Factors such as Population aging, unbanization and Social inequality should be considered in force casting model.



# Reasons Behind Sucieds Happening in India:

Suicieds is a complex phenomenon influenced by various social, economic, cultural and psychological factors. In india, several recasons have been identified as contributing to the high rates of suicides from 2001 to 2012.

Financial Stress: Economic unstability, poverty debt and Unemployement are Significant Strenors deading to suicide. In a Country like india, where a large population Still lives below the poverty line, financial difficulties can become overwhemling.

Family insues: Natural discord, domestic violence conflicts with pounts or inlaws and strained owntronships.

with pounts or inlaws and strained owntronships.

within the family can contribute to feeling of hopelessness and despair.

Mental health disorders: Depression anxiety, Schizophrenia and other mental health issues often go undiagnosed and untreated due to Stigma, lack of awareness and limited acces to mental health dervices.

Social poussive: - Poussive to conform to Societal.

expectations, especially negarding educations, cancer
and marriage can lead to feelings of imadequate
and failure.

Substance Abuse: Alcohol and drug abuse are Common Coping mechanisms for dealing with stress and trauma by they can exacustrate mental health problems.

debt burder, lack of irrigation facilities and unpredictable weather Patterns, have pushed many farmers to take their lives, especially in States like Mahanastra, Karnataka and Andhora preadesh.

Caste Discrimination: triscrimination and social octracization based on caste indentify particularly among marginalized Communities contribute to a sence of powerlessness and despair.

Educational possessive: High expectation and unterse competition in the education system, including possessive to ensel un exams and secure admission to possigious institutions and lead to stress, anxiety and yealing of failure.

Legal issues: legal troubles, such as criminal Changes lawsuits on property disputes can lead to immense stress and hopelessness particularly if individual perceive no way count of their predicament.

Pestici means: Easy access to uthal means such as Pesticides in vivial areas or easy availability of finenim uncreases the elikelihood of impulsive suicides.



Addressing the issues of Suicide in India recequives a multifacted approach that health services ouducing stigma addressing.

Age Calise Analysis of Suicides Data:

Valuable unsights into the demographics most affected by Suicide and help identify thends and patterns that can inform targeted powertion efforts.

Youth and adolescents (15-24 years):

- \* This age group often taces unique stressors such as academic pressure, relationships and identity formation.
- \* Factors like bullying, ayber bullying and social media influence can contribute to mental health issues and suicidal behaviour.
- \* Interventions targeting yoth mental awareness, School based Counselling programs and Suicide prevention hothiness can be effective.

Working - Age Adults (25-64 years):

- \* economic possessives, job insecurity, sulationship issue and family susponsibilities are common stressors in this age group.
- \* prental health disorders substances abuse and

\* Workplace mental health unitiatives alsess to affordable healthcase, and financial counselling services are essential for prevention.



- \* Social isolation, loneliness, physical health problems.

  loss of independence and are significant risk factors

  too suicides among the elderly.
- \* Chronic illeness, cognitive excline and feelings can contribute to suicidal indeation
- \* Comunity out reach programs, geriatric mental health services and support groups.

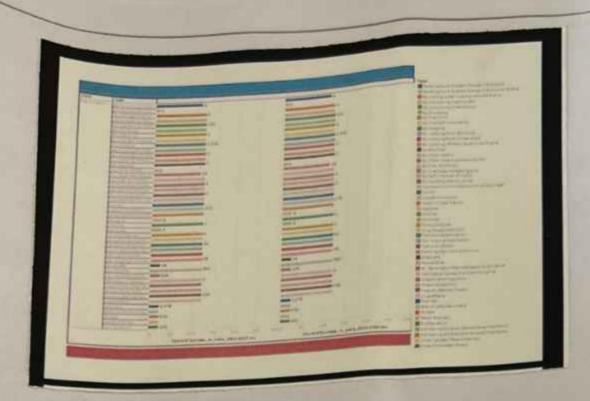
Children (under 15 years):

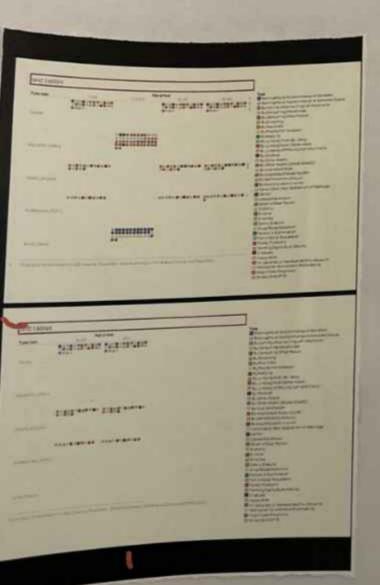
while Suicide rates among children are rulatively you compared to other age groups, they are not unmune to suicidal behavious.

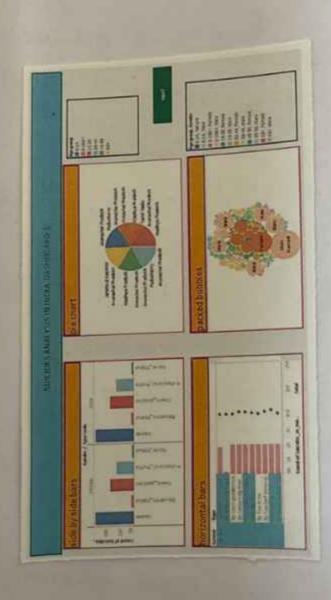
\* Bullying, abuse, family dysfunction, and exposure to torauma can increase the suisk of suicide among Children.

\* Early intervention priograms school - based mental health Services and parental education or rucognizing warning Styres are coucial for prevention.

Analysing suicide data by age group allows for targeted interventions that address the unique ousk factors and needs of each dimographic . Prievention efforts should yours on improving access to mental health genvices reducing stigma. Promoting rusilience and yestering supportive envisionments account au the age groups.







State vs No- of Suicides Based on Reason:

Analyzing suicider data by state and the seeson behind them parovides unsights unto nogional Variations and specific challenges that may contribute to Suicidal behavious.

# Mahawastra:

- \* Farmer distress due to agranian crisis of crop failure.
- \* Utilban areas may see suicides related to financial Stress, job loss, and relationship usue.

### Tamil Nadu:

- \* Economic poussure uncluding debt burden and Unemployement.
- \* Relationship puroblems, family disputes and Substances above is we.

### Kamataka:

- \* Farmer Suicides due to agricultered issues such as donoughts and debt.
- \* Unban Suicides scelated to financial difficulties and montial discord.

\* Economic hardships and poverty - related stressors

\* Political violence and social unoust may confribute to suicides un certain sugions.

# Andhora poradesh and Telangana:

\* Farmer suicides due to crop failure, debt.

\* High realis of suicides among youth due to academic poussive and family expectations.

### Kerala:

- \* High poweral ena of mental health issues leading to suicides.
- \* Substances abuse, alcoholism and domestic violence are contributing factors.

### Uttay pradesh:

- \* economic hardsphips, poverty, and lack of oppostunities.
- \* social issues such as taste discrimination, dowry occlated problems, and family conflicts.



# 'Madhya puadesh:

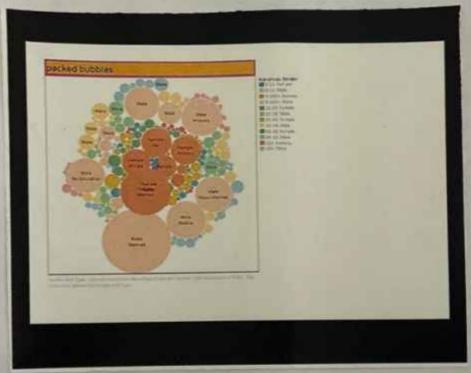
\* Farmer Buicides due to agricultural distress and debt

\* High rates of suicides among women due to domestic

Violence and social Stigma.

Analysing Suicidus data by State and reason can help polimakers develop targeted interventions allocate resources effectively and address the specific need of each region. Prevention efforts should force on addressing underlying socioeconomic issues.

Existing the problems on suicide in undia: It is estimated that one in 60 persons in Our country are affected by suicide. It includes both those who have attempted suicide and those cohor have been affected by the Suicide of a Close tamily or friend. Thus suicide is a major Public and methal health problem, which demand Ungent action.



The suicide vote in undia is 10.3 in the last three decades the suicide rate has increased by 43% but the male female matio have been stable at 1:4:1 majority (71%) of suicides in India.

### Dashboard

Creating a darkboard in tableau on suicides in undia unvolves several steps, including data pereparation Visualization creation and dashboard design.

Data pereparation:

Obtain a dataset on suicides un India.

Ensure that the data set includes orelevant information Such as age. gender method of Sucide, location and year.

\* Import the dataset into tableau.

Visualization Guation:

Start by Greating undividual visualization for key me trice violated in India.

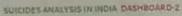
- \* Bar charts showing the no of suicides over the years '
- \* pie charts on tree maps showing the distribution of Buicides by age group on gender.
- \* Line Charts depicting trands in suicide mates over time.
- \* maps showing the geographical distribution of suicides across different regions of undia.

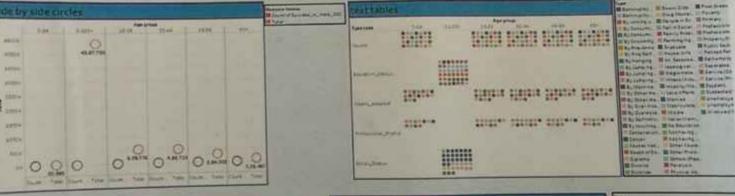
# Dashboard Design:

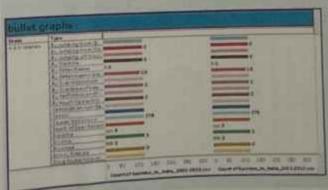
- \* Stanting by adding a new dashboard from the dashboard table in tableau.
- \* Derag the visualization you create earlier onto the dashboard canvas.
- \* Assange the visualization in a digical and intitive manner. Consider factors such as hierarchy flow and emphasis on key metrics.
- \* Add text books, titles and annotation to provide Context and winsights.
- \* Publish it to tableau serve or tableau public to shave it with others.
- \* share the dashboard unk or embed it in websites or presentation as needed.

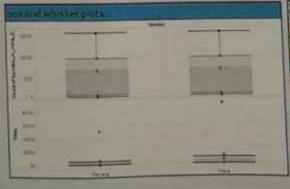
By these steps we can create an information of visualls appealing dashboards in tableau on suicides in India. peroviding Valuable insights into this.

# SUCIDES ANALYSIS IN INDIA DASHEDARDS Side by side bars Property Control of Property James & Salary Anticome Property Antic









### Story

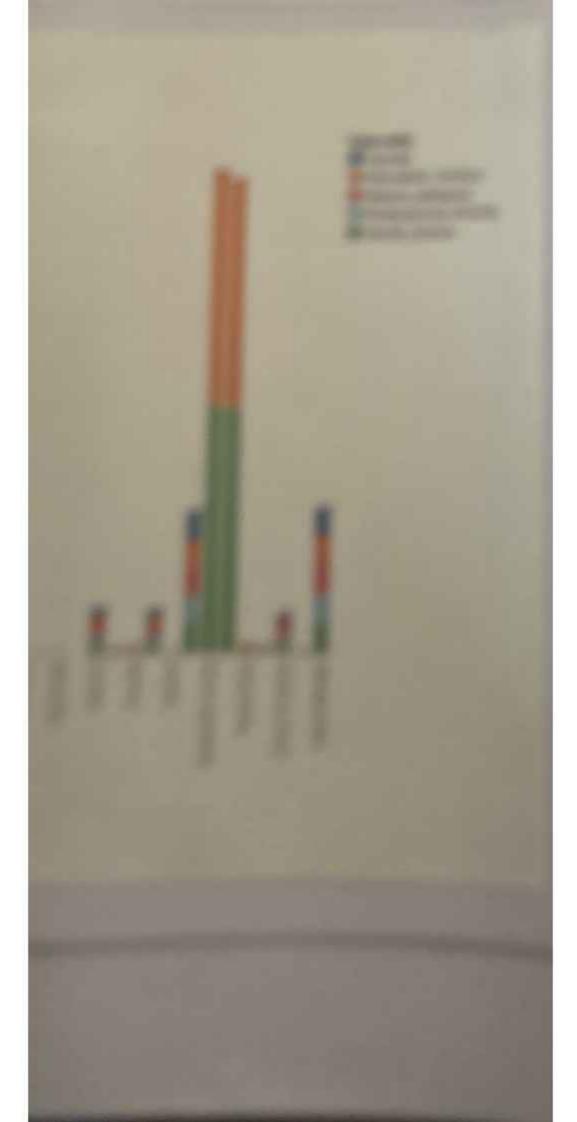
Greating a story in tableau on suicides in undia involves crafting a navorative using a service of verlated visualizations to convey insights and trends effectively.

# Duta presponation:

- \* Obtain dataset on suicides vin undia, ensuring it windleds successful unformation such as age gender method of suicide elocation and year.
- \* Import the dataset into tableau.

### Create the story:

- \* Go to the story tab in tableau and click on "New story" to oreate a new story.
- \* Add a title and description to introduce the topic of the story.
- \* Add "aushboard" objects to the story selecting
  the selevant dashboard on individual visualization
  Greated Earther.
  - \* use storytelling techniques such as highlighting.



Share the Story URL or embed uit in presentation suports or websites to reach a wider audience.

By these steps we can create a compelling Story in Tableau on suicides un India. Web integration:

To integrate tableau visualizations, such as dashboards and stories unto a website uit unvolves embedding the visualizations using HTML and Javascript and blaskcode of python.

### Guating website:

Develop the website using HIML, as and Javascript and python then we use a test editor or web development framework with Bootstrap.

Paste the embed code copied from tableau into HIML code of website at the desired location.

Ensure that the embed code us placed within an HIML container Such as div element with a specific

By these steps, we can untegrate tableau Visualizations unto website.