# MIDNAPORE COLLEGE (AUTONOMOUS) Affiliated to Vidyasagar University



## **PROJECT** REPORT

for the award of degree of **Bachelor Of Science** in Statistics

SESSION: 2021 - 2024

SUBMITTED BY -

ROLL: MC/UG/S-VI/24

NO.: 1856

REG NO.: 2021-1312 of

2021-2022

PAPER: STAT-DSE-4

TOPIC

**ANALYSIS OF 2011 CENSUS DATA OF INDIA** 

PREDICTION OF 2021 & 2031 CENSUS

#### **CERTIFICATE FROM THE INSTITUTE**

This is to certify that 6<sup>th</sup> Semester Student with Roll: MC/UG/S-VI/24 No.: 1856 have satisfactorily completed the Project Report entitled "ANALYSIS OF 2011 CENSUS DATA OF INDIA & PREDICTION OF 2021 &2031 CENSUS" in partial fulfilment of the requirement for the award of degree of Bachelor of Science in Statistics from Department of Statistics, Midnapore College (Autonomous), West Bengal during academic year 2021-2024.

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Midnapore College (autonomous)

## **ACKNOWLEDGEMENT**

With colossal pleasure, I am presenting "ANALYSIS OF 2011 CENSUS DATA OF INDIA & PREDICTION OF 2021 & 2031 CENSUS" report as part of the curriculum of 'Bachelor of Science in Statistics'. I wish to thank all the people who gave me unending support while bringing out this project to its ultimate form.

First and foremost, I would like to express my deep sense of gratitude and gratefulness to my supervisor Prof. Moumita Roy, Head of the Department, Department of Statistics, Midnapore College (Autonomous) for her invaluable encouragement, suggestions and support from an early stage of this project and providing me extraordinary experiences throughout the work.

Finally, I am thankful to the entire faculty members of Department of Statistics, Midnapore College (Autonomous), my friends and my family members for their moral support and constant encouragement while carrying out this project.

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#### **SUMMARY**

A census is an official and comprehensive survey conducted to gather detailed information about the population of a country or region. It typically includes data on the number of people, their demographic characteristics, and other pertinent social and economic information.

In this project, the data of 2011 census is used. The analysis of the 2011 census data focuses on understanding the population metrics and preparing to predict future trends for the years 2021 and 2031.

In this project, the total population from census of 1951 to 2011 is used. The analysis of the total population data from the census years 1951 to 2011 provides valuable insights into the demographic changes and trends over six decades. This outlines the key findings and trends observed in the population data during this period which includes growth trends in every aspects, decadal growth rate, sex ratio (number of females per 1000 males) fluctuated over the years, improvement in literacy rates over the period.

This project focuses on predicting future population metrics for the years 2021 and 2031 based on historical census data from 1981 to 2011. The project utilizes linear regression models to forecast these values and employs ANOVA (Analysis of Variance) to assess the significance of the models.

#### INTRODUCTION

## 2.1. About the Topic:

Census data serves as a foundational pillar in understanding the demographic landscape of a country or region. Through comprehensive surveys conducted periodically, census data provides invaluable insights into population size, growth trends, socio-economic characteristics, and geographical distribution over time. This project focuses on analyzing census data spanning from 1951 to 2011, with a particular emphasis on examining the evolution of total population dynamics.

The census in India dates back to the British colonial era, with the first modern census conducted in 1871. Since then, it has evolved significantly in terms of scope, methodology, and technology.

After India gained independence in 1947, the analysis of census data took on increased significance as the country embarked on its journey of nation-building, socio-economic development, and policy formulation.

The Registrar General and Census Commissioner of India, under the Ministry of Home Affairs, became the central authority responsible for conducting and overseeing the census operations. This institutional framework ensured continuity and standardized procedures in data collection across the country.

Studies highlight demographic shifts such as population growth rates, age structure, working population changes over decades. For instance, India's population growth has influenced policy decisions and development strategies.

Census data provides insights into socio-economic indicators like literacy rates, educational attainment, employment patterns, household amenities, and income distribution. Such data helps in understanding disparities across different social groups.

The census provides data on literacy rates, explores the impact of education policies and interventions on literacy rates and educational outcomes.

## 2.2. Workdone in different section:

Understanding demographic shifts and trends over decades is crucial for policymakers, researchers, and economists alike. It helps in formulating informed decisions related to resource allocation, infrastructure development, social welfare programs, and sustainable urban planning.

We have divided this report into six different sections namely,

Model Motivation: Model motivation in the context of data analysis refers to the purpose behind choosing a particular analytical approach, statistical model to solve a problem.

Methodology: This section details the steps and processes involved in developing and implementing the model. The steps includes Data Collection, Model Development, Testing, Parameter Tuning, Implementation.

Data Analysis: This section presents the analysis of the data used and the results obtained from the model. It describe the initial examination of the data, including summary statistics, visualizations, and identification of pattern. It also includes Model Performance, Comparative Analysis, Error Analysis.

Conclusion: This section summarizes the key findings and implications of the project. It recap the main findings from the data analysis and model performance. Here the decision of testing is done to analyse the significances.

After successfully predicting data for 2021 and 2031, several avenues can be explored to further enhance the project and extend its applicability. By pursuing these future work directions, the project can evolve to provide even more accurate, reliable, and actionable insights, ultimately contributing to better decision-making and planning for the future.

Reference: This section lists all the sources cited in the report. Citations Include all books, articles, websites, and other sources referenced in the project.

Appendix: This section contains supplementary material that Include any code ,provide any tables that support the analysis, include raw data or data samples.

### **MODEL MOTIVATION**

Model motivation in the context of data analysis refers to the purpose behind choosing a particular analytical approach, statistical model to solve a problem. Here are key aspects to consider when discussing model motivation:

- 1. Problem Understanding: here, we are predicting population growth based on historical census data.
- 2. Data Characteristics: It describes the characteristics of the dataset, including its size, structure, variables. It justify why the selected model or approach is appropriate given the data's characteristics
- 3. Model Selection Criteria: It discuss the assumptions underlying the chosen model and how they align with the nature of the data.
- 4. Performance Evaluation and Validation: It define the evaluation metrics used to assess the model's performance.
- 5. Practical Applications and Implications: It discuss how the model results contribute to addressing the original research question or solving the problem.

In this study, we aim to predict future population trends using historical census data from 1951 to 2011. Given the continuous nature of population data and the need to understand linear relationships over time, we chose to employ a linear regression model. This model is well-suited to capture the gradual changes in population size and demographic shifts observed in the dataset.

By regression analysis, we seek to provide policymakers with insights into population growth patterns, which can inform urban planning, resource allocation, and social welfare policies. This approach also helps stakeholders understand how the model aligns with the project's objectives and contributes to knowledge advancement or practical applications.

## **METHODOLOGY**

The methodology provides a systematic approach to analyzing census data from 2011 for different states and UTs in India. By employing statistical techniques and interactive visualizations, this analysis aims to uncover demographic trends and socio-economic patterns, offering valuable insights for policy-making and further research.

The dataset is segmented into different states and union territories (UTs) of India for detailed analysis. Preprocessing steps include selecting relevant columns (from 4 to 118) and organizing data by state for further analysis.

Calculated the total population for each state and UT by summing up the relevant columns.

Computed the sex ratio for India and visualized it using a pie chart to show the proportion of males and females.

Calculated the overall literacy rate and presented it through a pie chart to depict the percentage of literate and illiterate individuals

Explored the distribution of working population categories (main workers, marginal workers, non-workers, etc.) across India using pie charts.

For Analyzing Total Population Data of India (1951-2011) we have collected the total population data from each of the cencus from 1951 to 2011. Then a combination of line and scatter plots is created to visualize the trend of total population over the years.

After predicting of 2021 and 2031, a combination of line and scatter plots is created to visualize the trend of total population over the years.

**Line Plot**: Represents the trend of the total population over the years.

**Scatter Plot**: Highlights the population data points for each census year.

**Multiple bar diagram**: A multiple bar graph shows the relationship between different values of data.

**Box plot:** Box plots are helpful for visualizing the distribution of a numerical variable and identifying outliers.

**Pie chart**: Pie charts can be used to show the proportion of each category in a categorical variable

On predicting future population for the years 2021 and 2031 based on historical census data from 2001 and 2011, the project utilizes linear regression models to forecast these values and employs ANOVA (Analysis of Variance) to assess the significance of the models.

- The census data is loaded from population metrics for the years 1981 and 2011.
- Relevant variables, including total population, male and female population, male and female literate population, total workers, and non-workers, are extracted for analysis.
- Linear regression models are fitted to the data to predict each population metric based on the year.
- Separate models are created for each metric: total population, male population, female population, male literate population, female literate population, total workers, and non-workers.
- Using the fitted linear models, predictions for the years 2021 are generated.
- ANOVA is used to compare the variance within groups defined by the year, providing a statistical significance test for the models.
- The summary of ANOVA results helps determine if the year is a significant predictor for each population.
- If the p-values in the ANOVA results are below 0.05, it indicates that the year is a significant predictor for the respective population metric. This means the model is likely to provide reliable predictions.
- The census data is loaded from population metrics for the years 2001 to 2021 to predict the populatiin of 2031 in same process.

For Analyzing Total Population Data of India (2001-2021) we have collected the total population of three decades and visualized by bar plot.

Computed the sex ratio for India and visualized it using a pie chart to show the proportion of males and females are literate among total.

Explored the distribution of working population and Non Working population of the three years and analysed through bar plot.

For Analyzing Total Population Data of India (2001-2031) we have collected the total population of four decades and visualized by bar plot.

Computed the sex ratio for India and visualized it using a multiple bar plots to show the males and females population in these four years.

#### **DATA ANALYSIS**

#### **2011 CENSUS DATA ANALYSIS:**

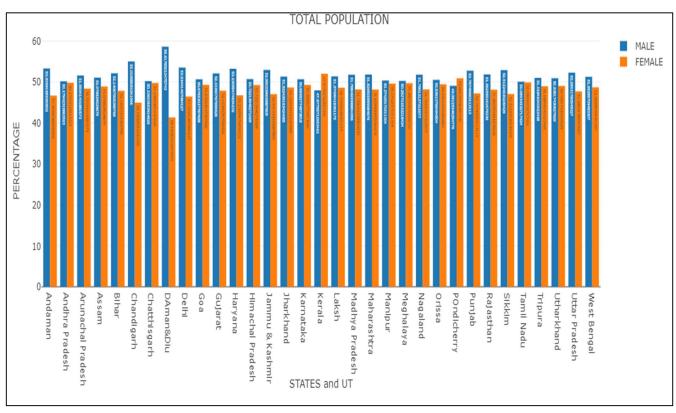
For analysis of 2011 data we have used R programming . We have first shorted the data and used the significant code to get the desire results.

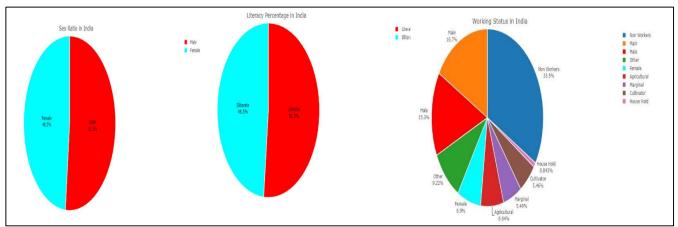
```
5.1. Code in R:
install.packages("plotly")
library(plotly)
cen<-read.csv(file="C:\\Users\\ Desktop\\PROJECT\\india-districtscensus-2011.csv")
censu=data.frame(wb1,asm1,meg1,trp1,man1,nld1,arp1,sik1,bih1,up1,raj1,del1,hryn1,utk1,chdg1,pjb1,hp1,jk1,j
kd1,ors1,chth1,and1,pon1,tn1,lak1,ker1,goa1,ktka1,ap1,mhr1,dd1,guj1,mp1)
cens1=as.data.frame(t(censu))
st_name=c("West Bengal","Assam","Meghalaya","Tripura","Manipur","Nagaland","Arunachal
Pradesh", "Sikkim", "Bihar", "Uttar
Pradesh","Rajasthan","Delhi","Haryana","Utharkhand","Chandigarh","Punjab","Himachal Pradesh","Jammu &
Kashmir", "Jharkhand", "Orissa", "Chatthisgarh", "Andaman", "POndicherry", "Tamil
Nadu","Laksh","Kerala","Goa","Karnataka","Andhra Pradesh","Maharashtra","DAman&Diu","Gujarat","Madhya
Pradesh")
#male+female pop
pop=censu[1,1:33]
mal=censu[2,1:33]
fem=censu[3,1:33]
z1=(mal/pop)*100
z2=(fem/pop)*100
In_states=st_name
zn=unlist(z1)
am=unlist(z2)
dat=data.frame(st_name,zn,am)
dat
p=plot ly(dat, x = ~In states, y = ~zn, type = 'bar', name = 'MALE',text=zn,textposition='auto') %>%
 add trace(y = ~am, name = 'FEMALE') %>%
layout(title="TOTAL POPULATION",xaxis = list(title = "STATES and UT"),yaxis = list(title = "PERCENTAGE"),
barmode = 'group')
```

q=plot ly(dat, x = ~In states, y = ~zn, type = 'bar', name = 'MALE',text=zn,textposition='auto') %>%

```
add_trace(y = ~am, name = 'FEMALE') %>%
layout(title="TOTAL POPULATION",xaxis = list(title = "STATES and UT"),yaxis = list(title = "PERCENTAGE"),
barmode = 'stack')
q
newpop1=rbind(z1,z2)
newpop=matrix(unlist(newpop1),2,15)
barplot(newpop,names.arg = st_name[1:15],main = "Male : Female Population",xlab = "States",ylab = "% of Total Population",legend.text=c("male","female"),col=c("orange","blue"),space = 1)
```

Similarly using the same code transcript we have made the same for other variables as such Male Population, Female Population, Literate Male, Literate Female, Worker and Non-Worker Popultion for year 2011.

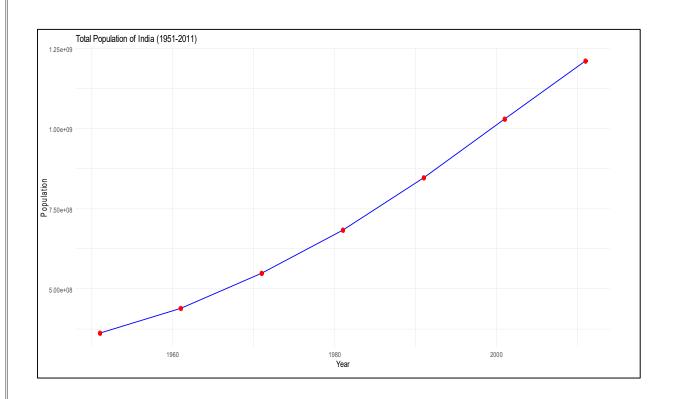




#### **GRAPHICAL REPRRSENTATION OF CENSUS DATA FROM 1951 – 2011**

#### 5.2 Code in R:

```
cen <- read.csv(file = "C:\\Users\\ Desktop\\PROJECT\\1951-2011.csv")
> cen
YEAR TOT_POPLN
1 1951 361088090
2 1961 439234771
3 1971 548159652
4 1981 683329097
5 1991 846387888
6 2001 1028610328
7 2011 1210854977
> library(ggplot2)
> ggplot(data = cen, aes(x = YEAR, y = TOT_POPLN)) +
+ geom_line(color = "blue", linewidth = 1) + # Line plot (use linewidth instead of size for lines)
+ geom_point(color = "red", size = 3) + # Points at each data point
+ labs(title = "Total Population of India (1951-2011)",
     x = "Year",
     y = "Population") +
+ theme_minimal()
```



#### PREDICTION OF 2021 & 2031 CENSUS:

We first used to calculate the predicted value of 2021 and make ANOVA TABLE using R.

#### For Total Population:

H<sub>0</sub> (null hypothesis): The total population is the same for all years.

H<sub>1</sub> (alternative hypothesis): The total population is not the same for all years.

#### 5.3 Code in R:

> cen <- read.csv(file = "C:\\Users\\ Desktop\\PROJECT\\year.csv")

> cen

Year Population Males Females Male.Literate Female.Literate

1 1981 683329097 351490435 331838662 151072536 103283000

2 1991 846387888 437115724 409272164 204640000 147623000

3 2001 1028610328 532223090 496287238 336533716 224154081

4 2011 1210854977 623121843 586469174 444203762 334250358

#### Total.Workers Non.Workers

- 1 261465202 421863895
- 2 329942776 516445112
- 3 402234724 626375604
- 4 481743311 728886775
- > # linear regression models
- > model population <- Im(Population ~ Year, data = cen)
- ># ANOVA
- > anova population <- aov(Population ~ Year, data = cen)
- > # Predictions for Population
- > predicted population <- predict(model population, newdata = new data)
- > predicted population

1

#### 1383495593

**#ANOVA Summary for Total Population:** 

> print(summary(anova\_population))

Df Sum Sq Mean Sq F value Pr(>F)

Year 1 1.557e+17 1.557e+17 2823 0.000354 \*\*\*

Residuals 2 1.103e+14 5.517e+13

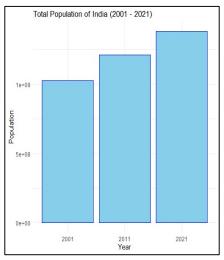
---

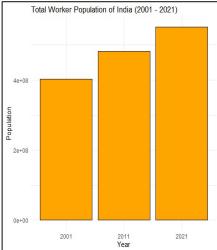
Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1

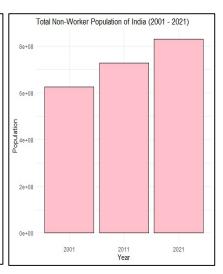
Similarly we have calculated the predicted value for other variables as such Male Population, Female Population, Literate Male, Literate Female, Worker and Non-Worker Popultion for year 2021.

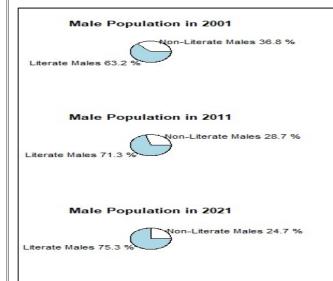
Then ANOVA TABLE is used to check whether to accept or reject our null hypothesis.

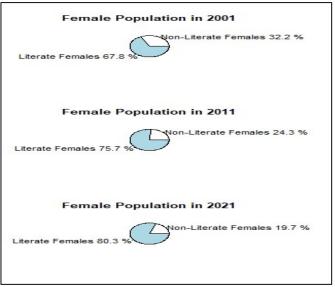
Some Graphical representation of data analysis from 2001 to 2021 is given below:







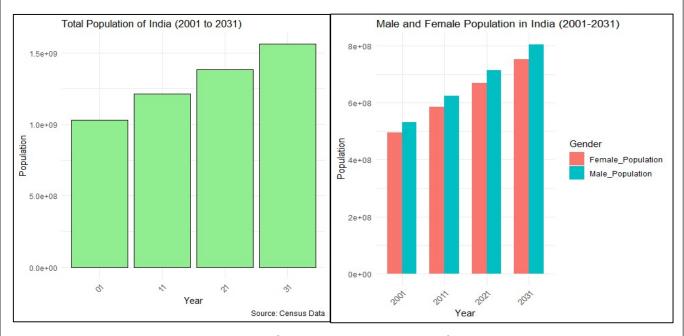




## For prediction of 2031 we have used same code used in <u>5.3 Code</u> in R using the source as

cen <- read.csv(file = "C:\\Users\\ Desktop\\PROJECT\\2001-2021.csv")

Here is some Graphical representation of data analysis from 2001 to 2021 is given below :

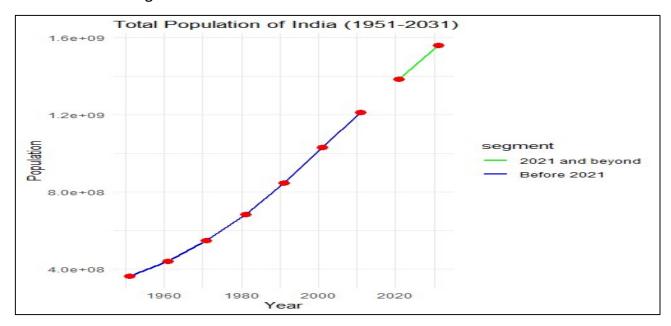


For graphical representation of overall census data from 1951 - 2031 we have used the same code of <u>5.2 Code in R</u> only the csv file is named as

cen <- read.csv(file = "C:\\Users\\ Desktop\\PROJECT\\1951-2031.csv") and made a new segment

cen\$segment <- ifelse(cen\$YEAR >= 2021, "2021 and beyond", "Before 2021")

and the result is given below:



### **CONCLUSION**

- From the Graphically Plotted data of 2011, we can say that 51.5% of the total population are male and 48.5% of the total population are female.
- From the Graphically Plotted data of 2011, we can see that 33.5% of the total population are non workers whereas others are working as marginal and main workers.
- In Statewise Comparison, the different states have various population but there population has been increased from the last census data .
- Uttar Pradesh is the largest populated state and Sikkim is the least populated state according to Census 2011.
- From the line and scatter plot of analysis of census data from 1951 2011, we can
  say that there is a Trend of increase in the population over 10 years of the cencus
  survey and this may continue as well as will have an affect of the year of 2021 and
  2031.
- After prediction of 2021, from graphical representations from 2001-2021, we can conclude that the Total Population ,working and non working population of 2021 is increased significantly from 2001 and 2011.
- The pie chart shows the Male Literacy from total male population in various year. The male literacy percentage in 2001 is 63.2%, in 2011 is 71.3%,in 2021 is 75.3%, which denotes there is an increment of literacy male population with increase in population.
- The pie chart shows the Female Literacy from total Female population in various year. The male literacy percentage in 2001 is 67.8%, in 2011 is 75.7%,in 2021 is 80.3%, which denotes there is an increment of literacy female population with increase in population.
- After prediction of 2031, from graphical representations from 2001-2031, we can
  conclude that the Total Population ,working and non working population of 2031
  is increased significantly from 2001 ,2011,2021. The male and female population
  is also increased significantly.
- From the line and scatter plot of analysis of census data from 1951 2031, we can say that there is a Trend of increase in the population over 10 years of the census survey. The predicted data also shows in exponential increment.
- Interpreting F-value and p-value from ANOVA TABLE:
  F-value: Measures how much the group means differ relative to the variability within the groups. A higher F-value indicates a more significant difference.
  p-value: Determines the significance of the results. A lower p-value (< 0.05) suggests that the results are statistically significant.

- From prediction of 2021, we get the ANOVA TABLE with F and p values. For example: For **Total Population: F-value:** 2823, **p-value:** 0.000354 (significant at 0.001). Which concludes that the year significantly affects the total population, with a very high F-value indicating strong evidence against the null hypothesis.
- From prediction of 2031, we get the ANOVA TABLE with F and p values. For example: For **Total Population: F-value:** 4096, **p-value:** 0.00995 (significant at 0.001). Which concludes that the year significantly affects the total population, with a very high F-value indicating strong evidence against the null hypothesis. For each dependent variable considered:

Null Hypothesis (H<sub>0</sub>): The dependent variable is the same for all years. Alternative Hypothesis (H<sub>1</sub>): The dependent variable is different for at least one year.

Since all p-values in ANOVA results are significantly less than 0.05 and F values are higher significantly, reject the null hypothesis for each dependent variable, indicating that the year has a significant effect on population, male population, female population, male literate population, female literate population, total workers, and non-workers of year 2021 as well as 2031 and hence conclude that The mean of the dependent variable is different for at least one year.

• From the prediction of 2021, we get

**Population in 2021:** 1,383,495,593

**Male Population in 2021:** 713,488,171

**Female Population in 2021:** 668,693,462

Male Literate Population in 2021: 536,934,352

Female Literate Population in 2021: 394,685,899

**Total Workers in 2021:** 552,128,072

**Non-Workers in 2021:** 831,142,630

• From the prediction of 2031, we get

**Population in 2031**: 1,559,975,601 **Male Population in 2031**: 804,488,330 **Female Population in 2031**: 753,784,123

Male Literate Population in **2031**: 638,063,091 Female Literate Population in **2031**: 471,629,214

**Total Workers in 2031**: 625,440,700 **Non-Workers in 2031**: 934,242,543

## **SCOPES**

*Scope* of this project about predicts census data for 2021 and 2031, offering insights into demographic trends, population growth, and socio-economic changes. The model can inform policy-making, urban planning, resource allocation, and economic forecasting by providing accurate, data-driven projections.

#### **Future Work**

- Model Enhancement: Future work can involve refining the model using advanced algorithms and incorporating real-time data to improve accuracy.
- Extended Analysis: Researchers can explore scenario planning, sensitivity analysis, and
  integration of additional data sources like economic indicators and environmental factors
  to enrich predictions.
- Applications Development: Developing user-friendly tools and dashboards to make predictions accessible to policymakers and stakeholders, aiding in informed decisionmaking.

## **REFERENCE**

- https://www.kaggle.com/datasets/danofer/india-census
- http://censusindia.gov.in/2011-Common/CensusData2011.html
- https://censusindia.gov.in
- https://censusindia.gov.in/census.website/data/census-tables
- https://www.google.co.in/
- <u>Fundamentals-of-mathematical-statistics book</u> by <u>Gupta SC</u>, <u>Kapoor V.K.</u>

## **APPENDIX**

1	Α	В	С	D	E	F	G	H	1	J	K	
							FemalesLiterate		Main.workers	Marginal.workers	Non.workers	
	AN	274984		126974								
	Andhra	8.5E+07	4.2E+07		50556760							
	Arunachal	1383727	713912		766005				478721			
	Assam	3.1E+07	1.6E+07		19177977							
	Bihar	1E+08	5.4E+07	5E+07	52504553							
	CHANDIG	2.7E+07	1.3E+07	1.3E+07	16185360							
	DADRA AI	343709	193760		223230							
	DAMAN A	243247	150301		188406							
	Delhi		8987326		12737767	7194856						
	Goa	1458545			1165487	615823						
	Gujarat	6E+07	3.1E+07		41093358							
1	Haryana	2.5E+07	1.3E+07	1.2E+07	16598988	9794067	6804921	8916508	7015283	1901225	16434954	
	HIMACHA	3.5E+08	1.8E+08	1.7E+08	211413489	121608986	89804503	139530541	105696121	33834420	213239219	
	JAMMU A			5900640	7067233							
5	JHARKHAI	3.3E+07	1.7E+07	1.6E+07	18328069	10882519	7445550	13098274	6818595	6279679	19889860	
7	KARNATA	6.1E+07	3.1E+07	3E+07	40647322	22508471	18138851	27872597	23397181	4475416	33222700	
	KERALA	3.3E+07	1.6E+07	1.7E+07	28135824							
)	LAKSHAD	64473	33123	31350	52553							
)	MADHYA	7.3E+07	3.8E+07	3.5E+07	42851169							
	MAHARAS	1.1E+08			81554290							
2	MANIPUR		1438586		1908476							
,	MEGHALA		1491832		1785005							
	MIZORAM	1097206			848175							
	NAGALAN		1024649		1342434							
	ORISSA	4.2E+07	2.1E+07		26742595							
	PONDICHI				957309							
	PUNJAB	2.8E+07	1.5E+07	1.3E+07	18707137	10436056						
	RAJASTHA	6.9E+07	3.6E+07		38275282							
	SIKKIM	610577			444952	251269			230397			
1	TAMIL NA	7.2E+07	3.6E+07		51837507	28040491						
	TRIPLIRA		1874376		2804783							
3	UTTAR PR	2E+08	1E+08		114397555							
4	UTTARAKE		5137773		6880953							
	WEST BEN	9.1E+07			61538281	33818810			25686630			
6	DEIV	,	2.07		21330281		2,,154,1	247,50333		5005,25		
1	STAT	hraPra	desh	_	1951 31115	1961 35983	1971 43503	1981 53551	1991 66508	2001 76210 8	2011	
3							45565			70210		
4			Prade	sh' N		337	468	632	865	1098	1384	
	0.55		Prade:	sh' N		337	468	632	865	1098	1384	
	Assa	am'	Prades	sh' N	8029	10837	14625	18041	22414	26656 3	31206	
5	Biha	am' ar		sh' N	8029 29085	10837 34841	14625 42126	18041 : 52303 :	22414 64531	26656 3 82999 10	31206 34099	
5	Biha	am' ar attisga		sh' N	8029 29085 7457	10837 34841 9154	14625 42126 11637	18041 52303 14010	22414 64531 17615	26656 3 82999 10 20834 2	31206 04099 25545	
5	Biha Chha Guja	am' ar attisga arat		sh' N	8029 29085 7457 16263	10837 34841 9154 20633	14625 42126 11637 26697	18041 52303 14010 34086	22414 64531 17615 41310	26656 3 82999 10 20834 2 50671 6	31206 04099 25545 50440	
5678	Biha Chha Guja Hary	am' ar attisga arat vana	irh		8029 29085 7457 16263 5674	10837 34841 9154 20633 7591	14625 42126 11637 26697 10036	18041 52303 14010 34086 12922	22414 64531 17615 41310	26656 3 82999 10 20834 2 50671 6 21145 2	31206 04099 25545 50440 25351	
56789	Biha Chha Guja Hary Him	am' ar attisga arat	irh		8029 29085 7457 16263	10837 34841 9154 20633	14625 42126 11637 26697 10036 3460	18041 52303 14010 34086 12922 4281	22414 64531 17615 41310 16464 5171	26656 3 82999 10 20834 2 50671 6 21145 2	31206 04099 25545 50440	
56789	Biha Chha Guja Hany Him	am' ar attisga arat vana	rh Prades	:h	8029 29085 7457 16263 5674	10837 34841 9154 20633 7591	14625 42126 11637 26697 10036	18041 52303 14010 34086 12922	22414 64531 17615 41310 16464 5171	26656 3 82999 10 20834 2 50671 6 21145 2 6078	31206 04099 25545 50440 25351	
567890	Biha Chha Guja Hary Him	am' ar attisga arat ana achalf	rh Prades ashmi	:h	8029 29085 7457 16263 5674 2386	10837 34841 9154 20633 7591 2812	14625 42126 11637 26697 10036 3460	18041 52303 14010 34086 12922 4281 5987	22414 64531 17615 41310 16464 5171 7837	26656 3 82999 10 20834 2 50671 6 21145 2 6078 10144 1	31206 04099 25545 60440 25351 6865	
5678901	Biha Chha Guja Hary Him Jami	am' ar attisga arat yana achalf mu& K	rh Prades ashmi	:h	8029 29085 7457 16263 5674 2386 3254	10837 34841 9154 20633 7591 2812 3561	14625 42126 11637 26697 10036 3460 4617	18041 52303 14010 34086 12922 4281 5987 17612	22414 64531 17615 41310 16464 5171 7837 21844	26656 3 82999 10 20834 2 50671 6 21145 2 6078 10144 1 26946 3	31206 04099 25545 60440 25351 6865	
5678910112	Biha Chha Guja Hary Him Jami Jhar	am' ar attisga arat ana achalf mu& K khand ataka	rh Prades ashmi	:h	8029 29085 7457 16263 5674 2386 3254 9697	10837 34841 9154 20633 7591 2812 3561 11606	14625 42126 11637 26697 10036 3460 4617 14227	18041 52303 14010 34086 12922 4281 5987 17612 37136	22414 64531 17615 41310 16464 5171 7837 21844	26656 3 82999 10 20834 2 50671 6 21145 2 6078 10144 1 26946 3 52851 6	31206 04099 25545 50440 25351 6865 12541 32988	
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5678901234	Biha Chha Guja Hary Him Jam Jhar Karn Kera	am' arttisga arat yana achalf mu& K khand aataka	rh Prades ashmi	:h	8029 29085 7457 16263 5674 2386 3254 9697 19402 13549 18615	10837 34841 9154 20633 7591 2812 3561 11606 23587 16904 23218	14625 42126 11637 26697 10036 3460 4617 14227 29299 21347 30017	18041 52303 14010 34086 12922 4281 5987 17612 37136 25454 38169	22414 64531 17615 41310 16464 5171 7837 21844 44977 29099	26656 3 82999 10 20834 2 50671 6 21145 2 6078 1 10144 1 26946 3 52851 6 31841 3 60348 7	31206 34099 25545 50440 25351 6865 12541 32988 51095 33406 72627	
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