Empowering The Future: A Literacy Rate Analysis For A Better Future Tomorrow

1.INTRODUCTION

PROJECT REPORT

Team ID: LTVIP2023TMID07890
Team Size: 2
Team Leader: Shaik.Mahimoon
Team Member: Kande. Varsha
Faculty Mentor: V VAMSIKRISHNA T

1.1 Overview:

To know development in a society, Literacy is another proper indicator of economic Development For purpose of census, a person in age limit of seven and above, who can both write and read with understanding in any of the language is considered as a literate in India. Literacy plays a major role in the economic development of a nation. Although India has raised its current literacy rate of 74.04% (2021) from 12% at the time of Independence in 1947, its still lag behind the world average literacy rate of 84%.

Compared with other nations, Republic of India has the largest illiterate population.

India Literacy Rate (According to 2011 Census)	
Overall	74.04%
Male	82.14%
Female	65.46%

- Majority of states in India has shown majors signs of improvement in their overall illiteracy rate thus, contributing towards a literate nation. Here we are analysing literacy rate in India for 2021.

- This dataset contains a record Literacy rate each state of India, here we are going to analyse State wise, Region wise and Overall Literacy rate among Children, Women and Men in India in India.

1.2 PURPOSE:

An empowering literacy education is one that builds on the cultural capital and funds of knowledge children bring to school with them. Conversely, Freire maintains that there exists a "pedagogy of the oppressed"—a system in which marginalized learners are given inadequate educational opportunities.

- Literacy plays a major role in the economic development of a nation. Although India has raised its current literacy rate of 74.04% (2021) from 12% at the time of Independence in 1947, its still lag behind the world average literacy rate of 84%. Compared with other nations, Republic of India has the largest illiterate population.

2. LITERATURE SURVEY:

2.1 EXISITING PROBLEM:

A problem statement is a clear and concise description of the issue or challenge that needs to be addressed. It should define the problem in a way that is understandable to stakeholders and provide a basis for developing a solution or course of action.

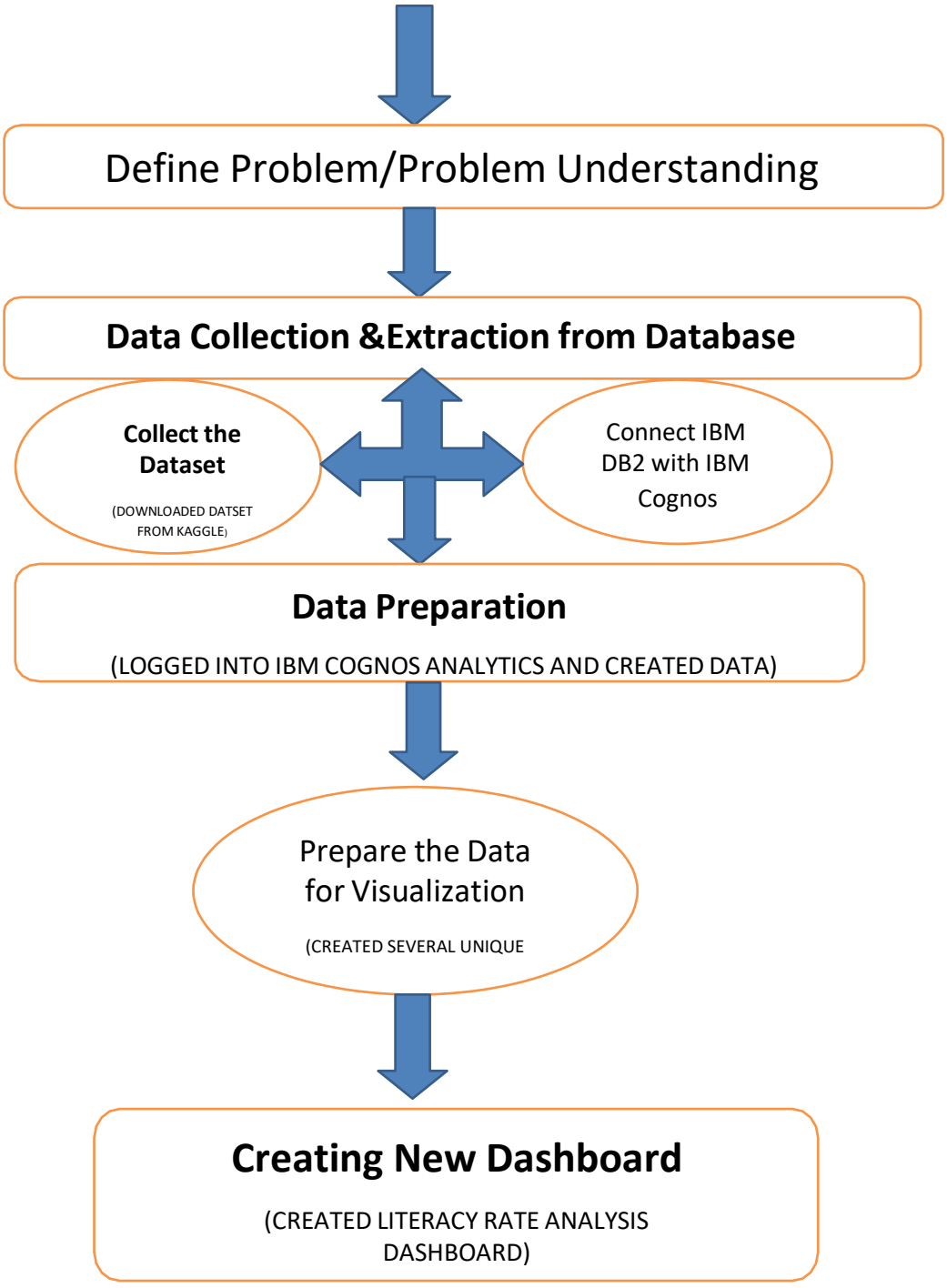
2.2 PROPOSED SOLUTION:

- Read aloud. Early reading can hugely benefit from collective read-alouds.
- Graphic organizers
- Encouraging students to bring their own, special experiences
- Group discussions.

3. THEORITICAL ANALYSIS:

3.1 Block diagram

Empowering The Future: A Literacy Rate Analysis for better Future



Creating New Story

(GUIDED JOURNEY SLIDESHOW)

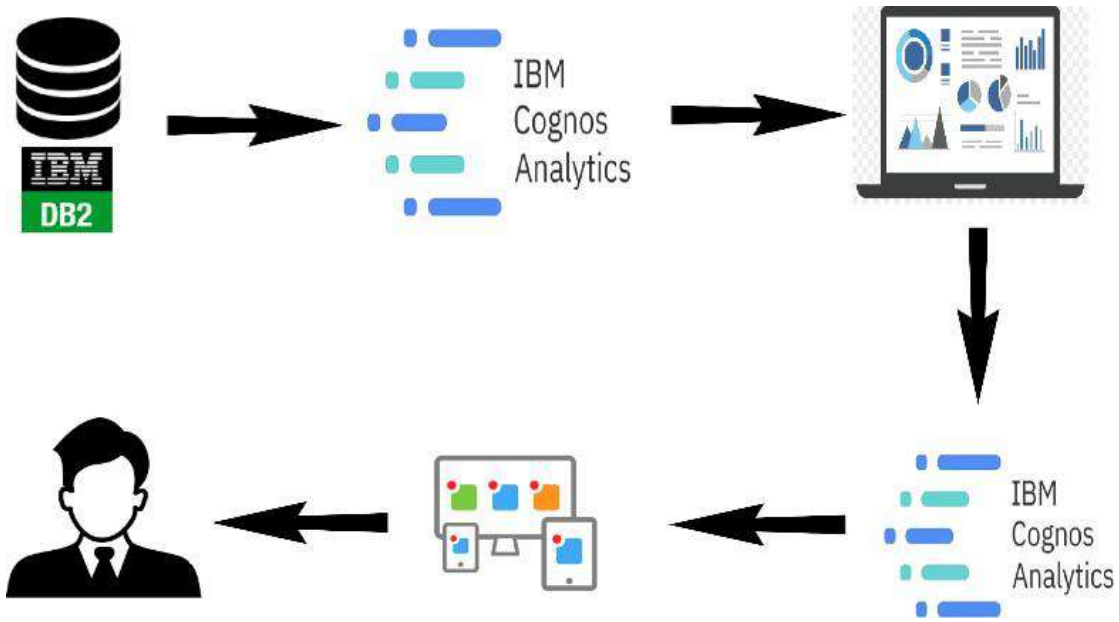
Creating New Report

(VISUALIZATIONS WITH DETAILED INFO)

Web Integration

(DASHBOARD, REPORT, STORY WAS DEPLOYED INTO UI WITH FLASK)

TECHNICAL ARCHITECHTURE:



3.1 Hardware /Software designing

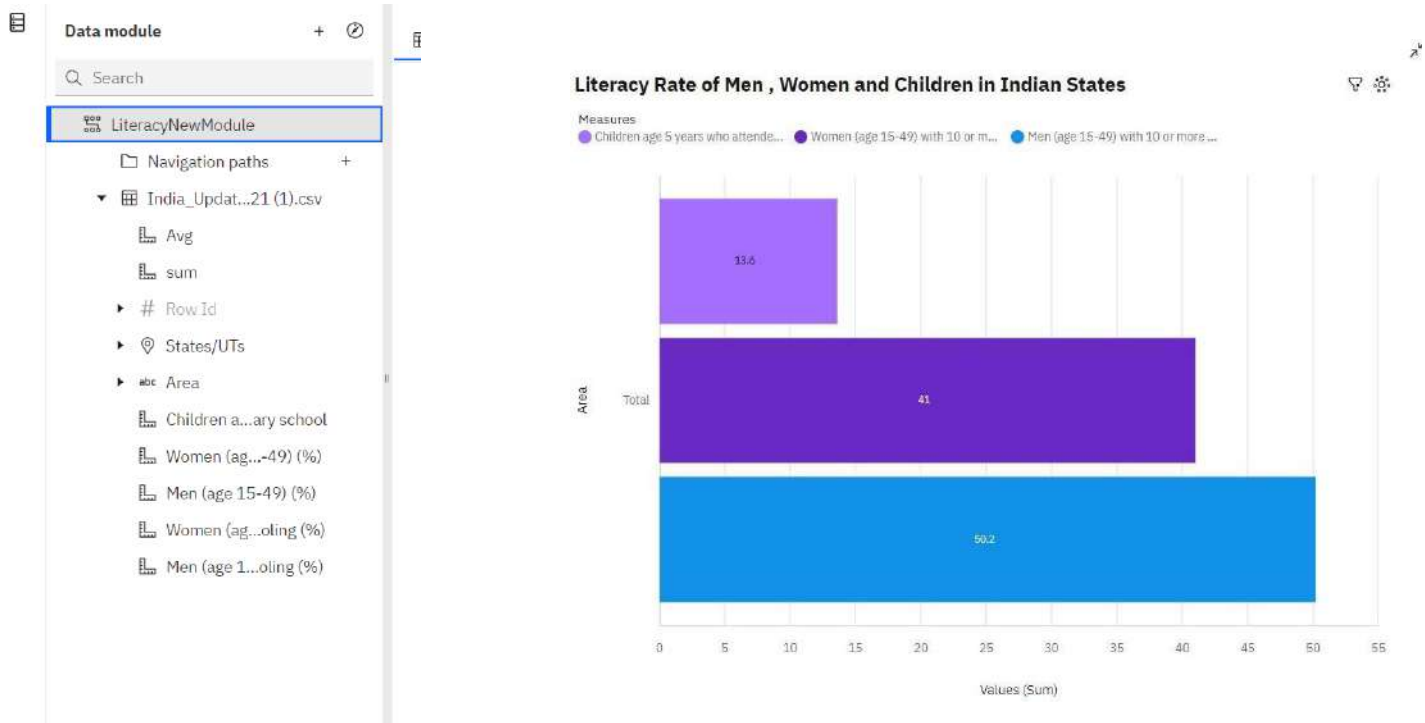
Hardware Requirements:

- Processor
- Memory (RAM)
- Storage
- Graphics Processing Unit (GPU)
- Internet Connection

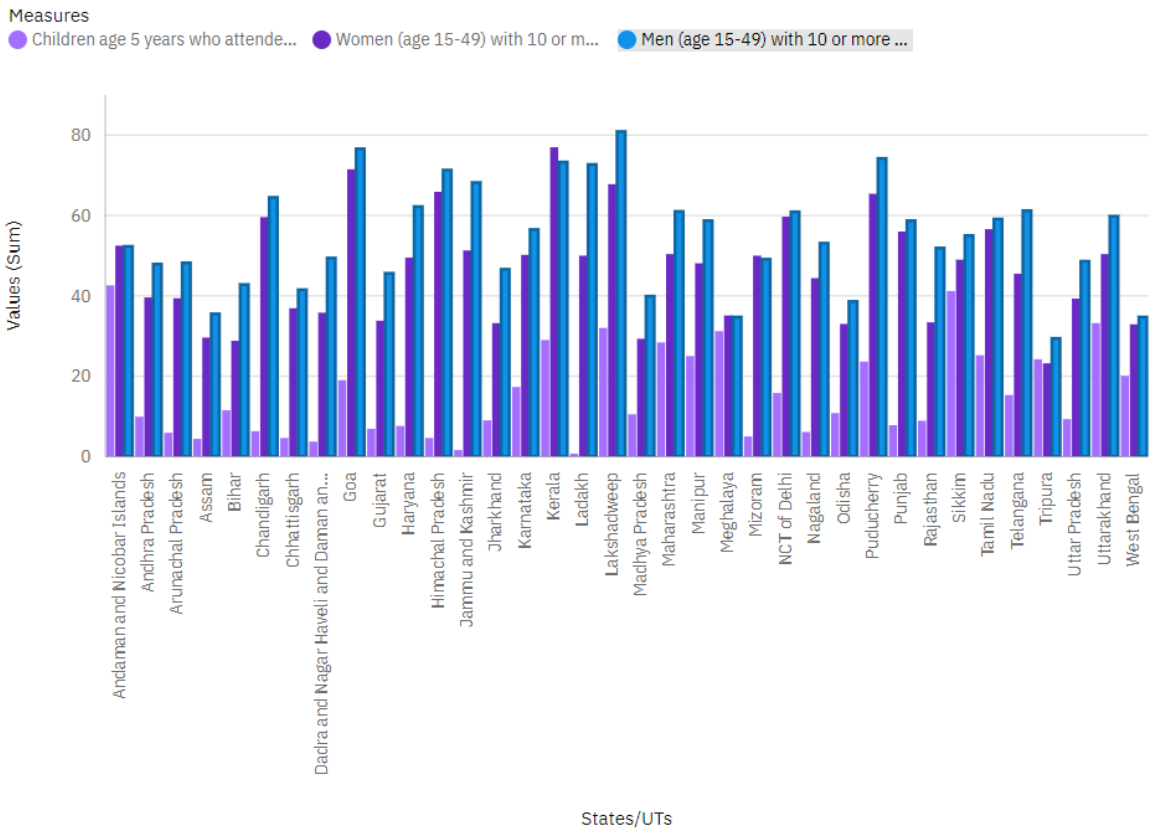
Software Requirements:

- IBM Cognos analytics Tool
- Flask
- Integrated Development Environment (IDE)- Visual studio code (Bikin Template)

4. RESULT:

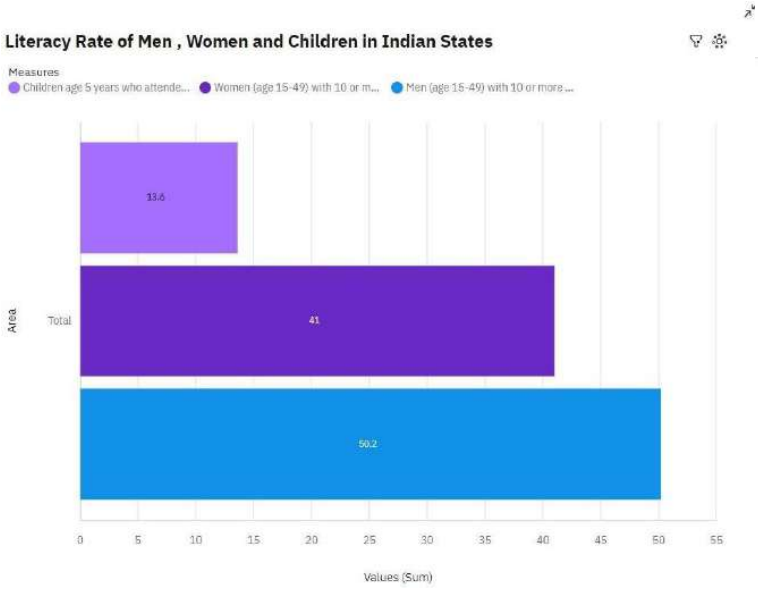


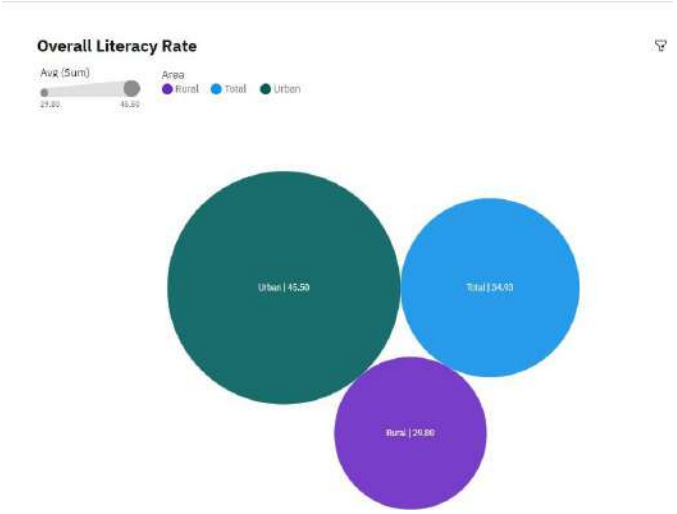
literacy Rate of men,women and children in states

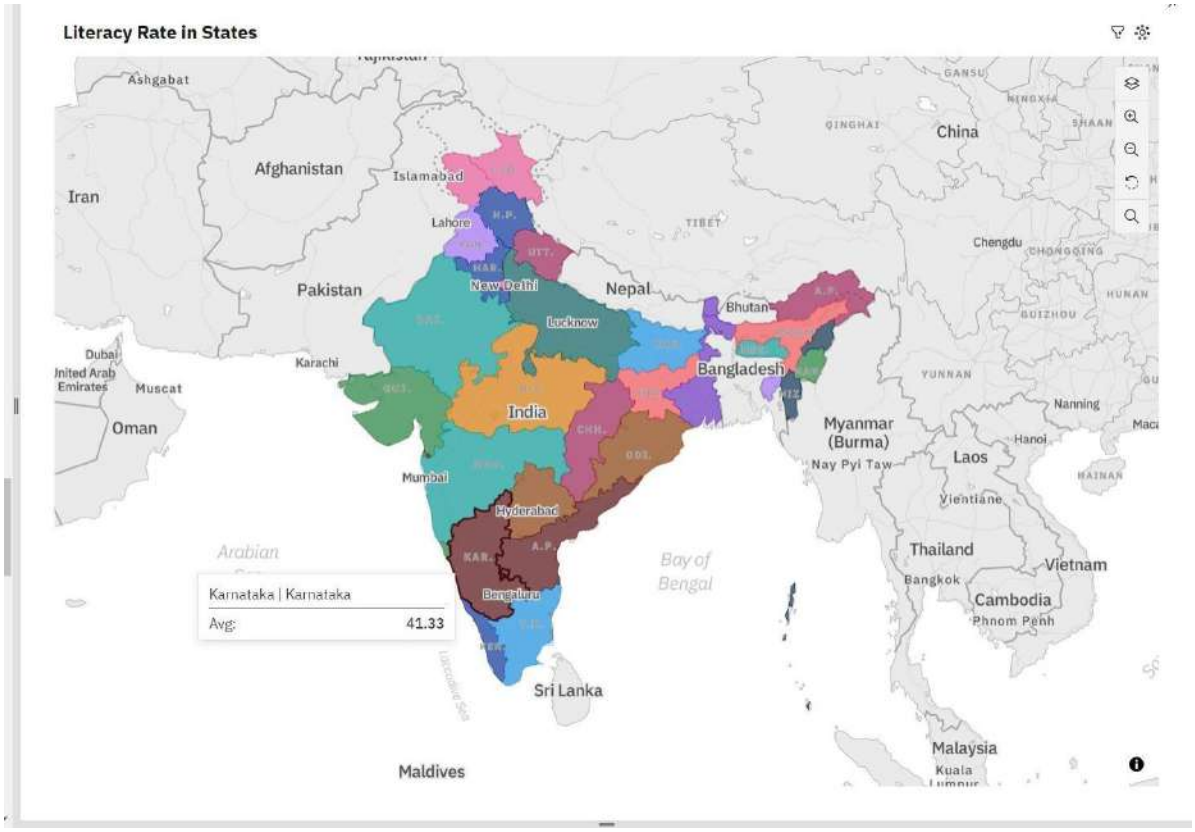


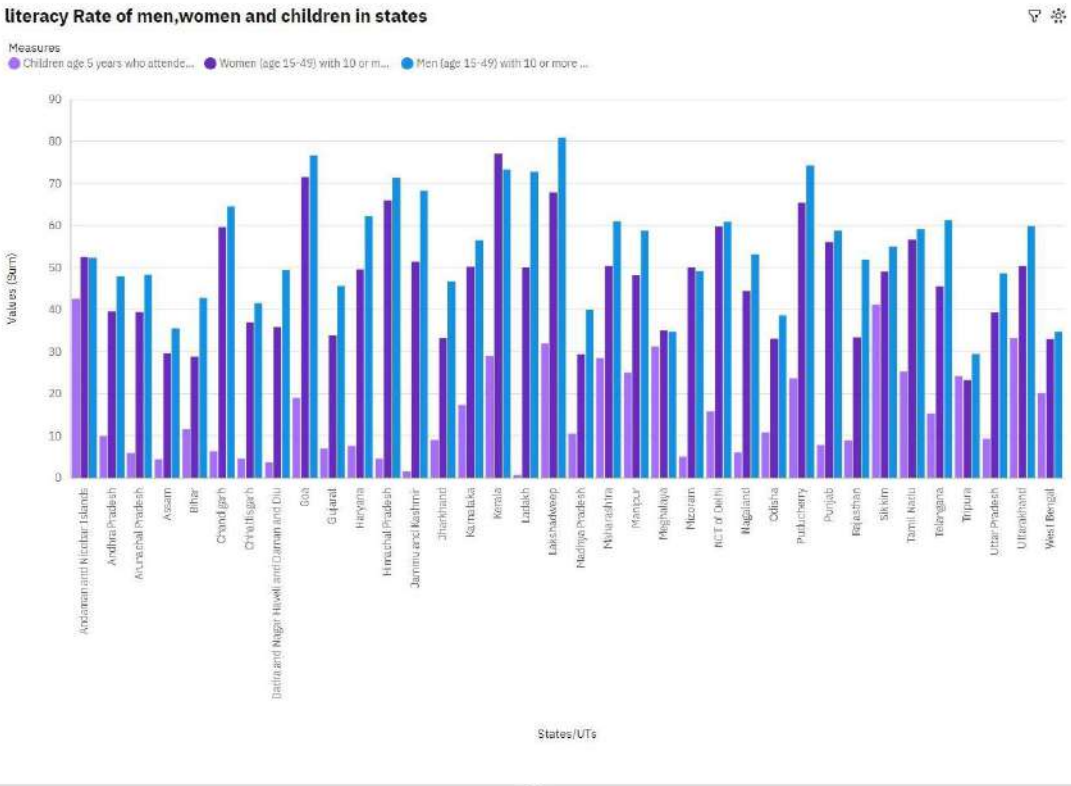
DASHBOARD

Edit
Analytics
Filters
Tab 1
Tab 2
Tab 3
Tab 4
Total Men in (%)
84.4
Total Women in (%)
71.5
Children Literacy Rate in (%)
13.6
hindi
Women Literacy Rate
41
Men Literacy Rate
50.2
Average Literacy Rate
34.93

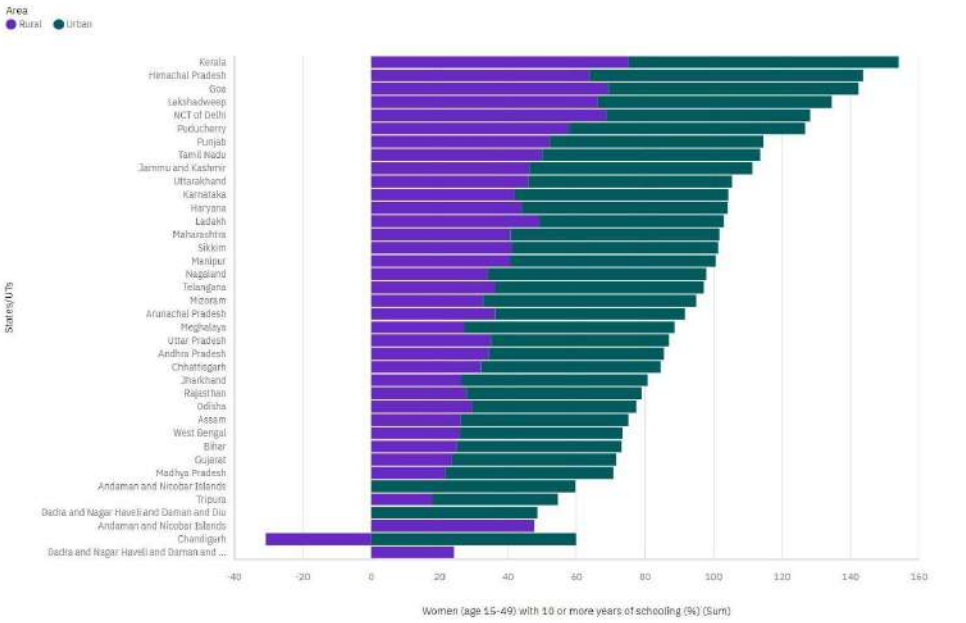

Literacy Rate of Men , Women and Children in Indian States
Measures
Children age 5 years who attende...
Women (age 15-49) with 10 or m...
Men (age 15-49) with 10 or more ...
13.6
Total
41
50.2
Area
0
5
10
15
20
25
30
35
40
45
50
55
Values (Sum)


Overall Literacy Rate
Avg (Sum)
Area
Rural
Total
Urban
Urban | 45.50
Total | 34.93
Rural | 29.80

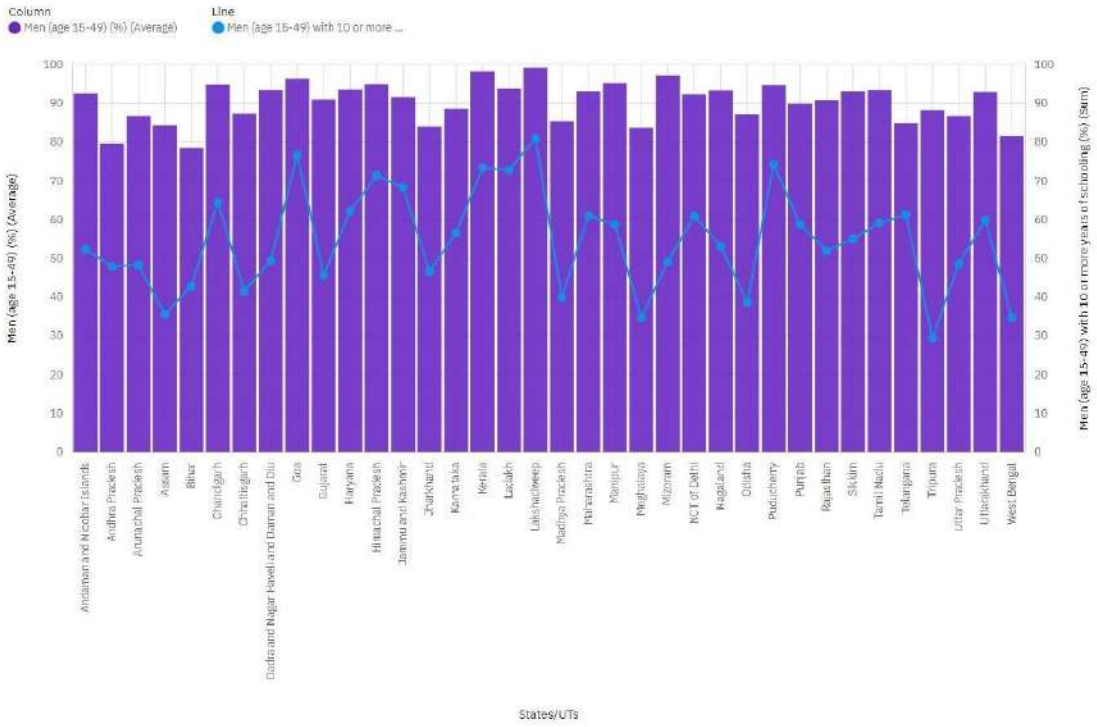

Literacy Rate in States
Ashgabat
Afghanistan
Islamabad
Iran
Lahore
Pakistan
New Delhi
Nepal
Lucknow
Bhutan
Bangladesh
Karachi
Dubai
United Arab Emirates
Muscat
Oman
India
Mumbai
Hyderabad
Bengaluru
Arabian
Bay of Bengal
Sri Lanka
Maldives
Myanmar (Burma)
Nay Pyi Taw
Laos
Vientiane
Thailand
Bangkok
Vietnam
Cambodia
Phnom Penh
Malaysia
Kuala Lumpur
China
Chengdu
Nanning
Hanoi
Karnataka | Karnataka
Avg: 41.33


literacy Rate of men,women and children in states
Measures
Children age 5 years who attende...
Women (age 15-49) with 10 or m...
Men (age 15-49) with 10 or more ...
Values (Sum)
0
10
20
30
40
50
60
70
80
90
Andaman and Nicobar Islands
Andhra Pradesh
Arunachal Pradesh
Assam
Bihar
Chandigarh
Chhattisgarh
Dadra and Nagar Haveli and Daman and Diu
Goa
Gujarat
Haryana
Himachal Pradesh
Jammu and Kashmir
Jharkhand
Karnataka
Kerala
Ladakh
Lakshadweep
Madhya Pradesh
Maharashtra
Manipur
Meghalaya
Mizoram
NCT of Delhi
Nagaland
Odisha
Puducherry
Punjab
Rajasthan
Sikkim
Tamil Nadu
Telangana
Tripura
Uttar Pradesh
Uttarakhand
West Bengal
States/UTs

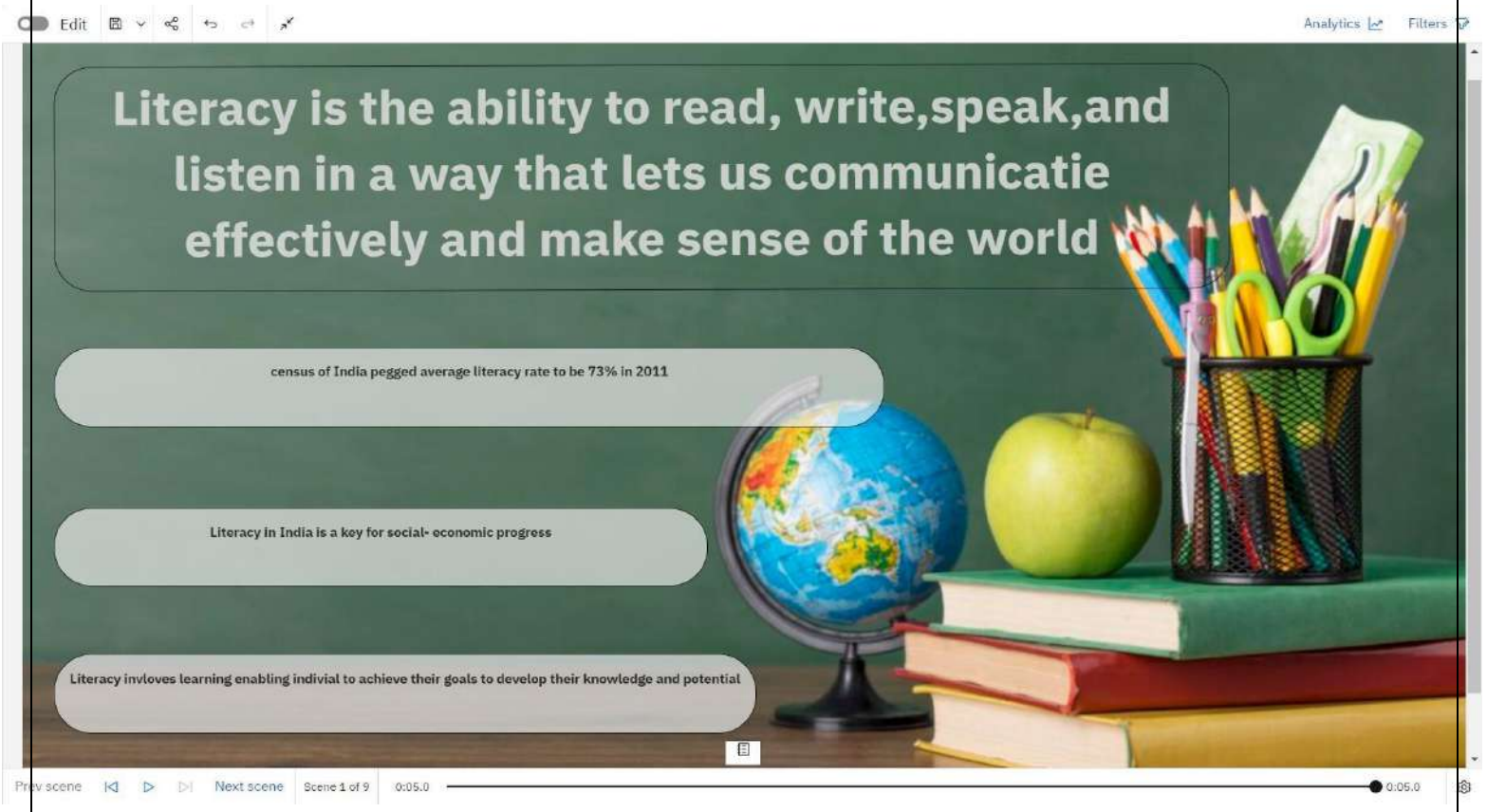
Women Literacy Rate in Rural and Urban Areas

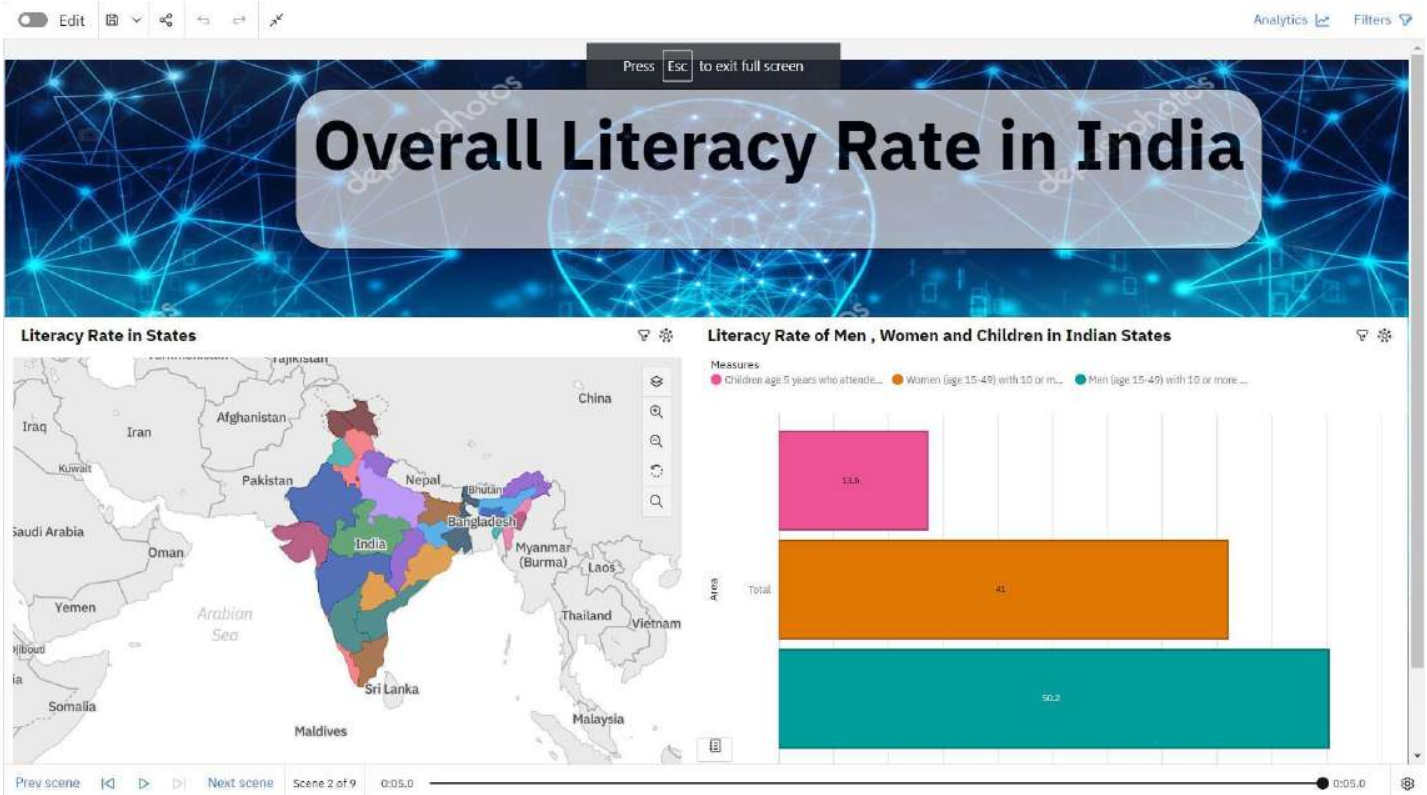


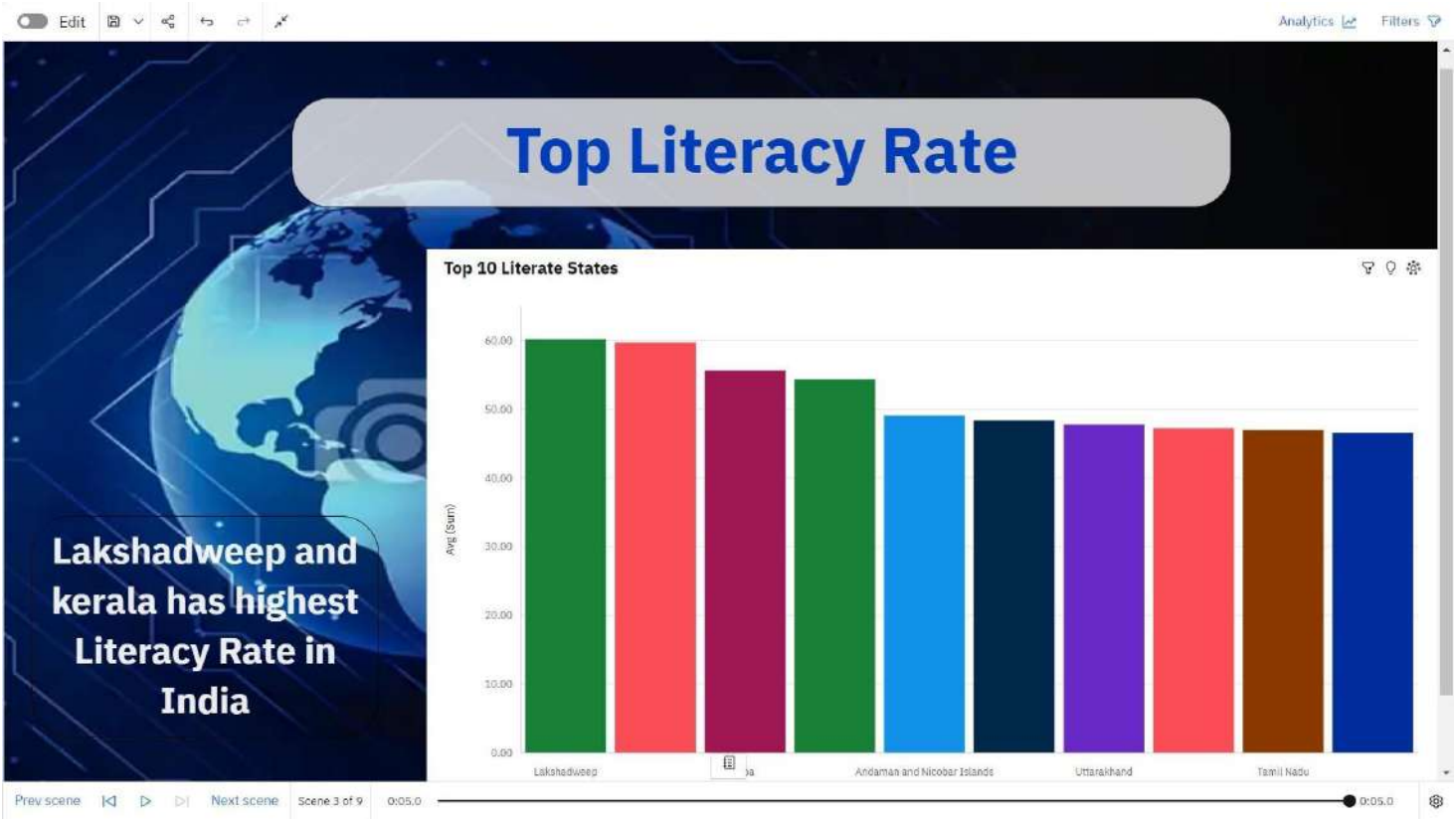
Men with Age Group 15-49 Over Those who attended Schooling

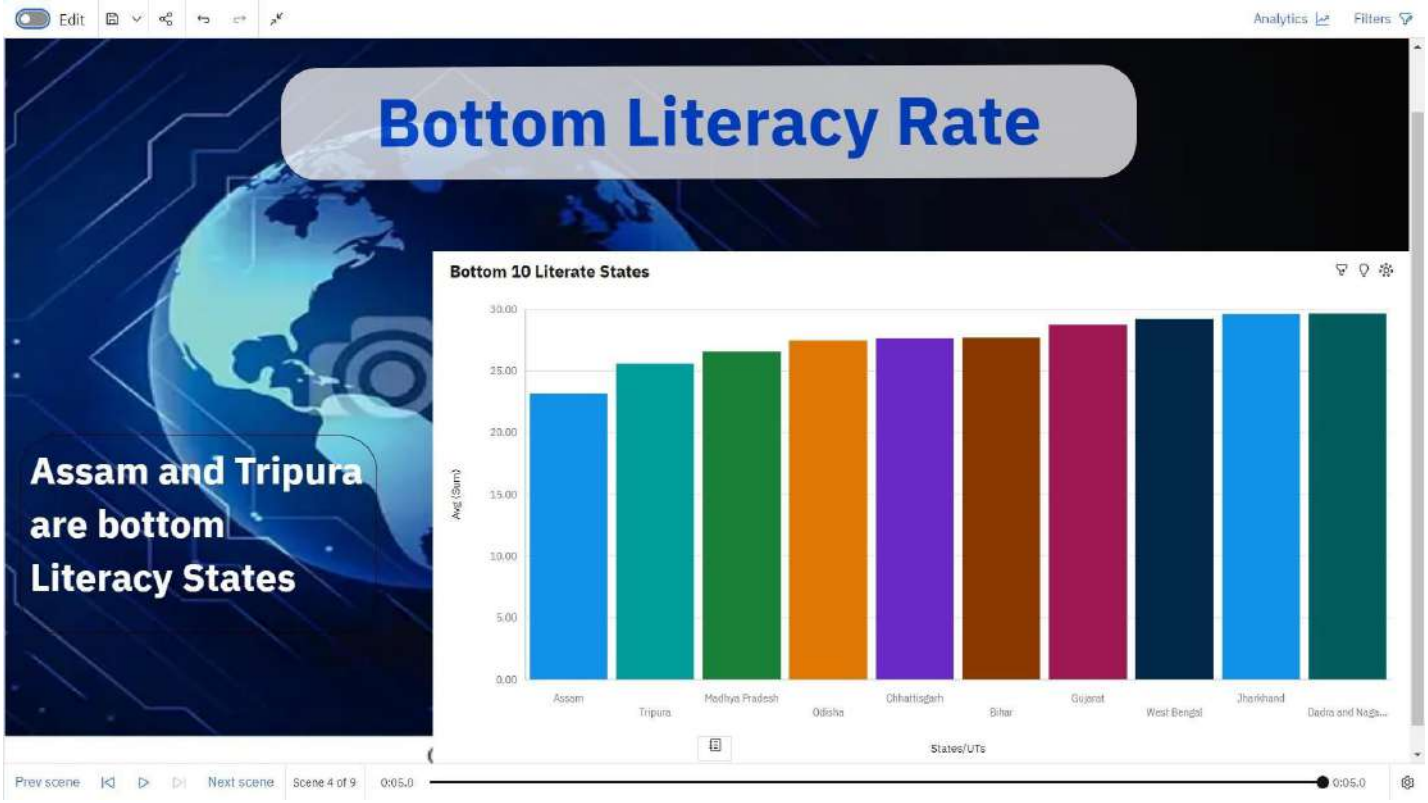


STORY


Edit
Analytics
Filters
Literacy is the ability to read, write,speak,and listen in a way that lets us communicatie effectively and make sense of the world
census of India pegged average literacy rate to be 73% in 2011
Literacy in India is a key for social- economic progress
Literacy invloves learning enabling indivial to achieve their goals to develop their knowledge and potential
Prev scene
Next scene
Scene 1 of 9
0:05.0
0:05.0


Edit
Analytics
Filters
Press Esc to exit full screen
Overall Literacy Rate in India
Literacy Rate in States
Literacy Rate of Men , Women and Children in Indian States
Measures
Children age 5 years who attende...
Women (age 15-49) with 10 or m...
Men (age 15-49) with 10 or more ...
Area
Total
13.9
41
50.2
China
Afghanistan
Iran
Iraq
Kuwait
Pakistan
Nepal
Bhutan
Bangladesh
India
Myanmar (Burma)
Laos
Thailand
Vietnam
Saudi Arabia
Oman
Yemen
Arabian Sea
Somalia
Sri Lanka
Maldives
Malaysia
Prev scene
Next scene
Scene 2 of 9
0:05.0
0:05.0


Edit
Analytics
Filters
Top Literacy Rate
Top 10 Literate States
Avg (Sum)
60.00
50.00
40.00
30.00
20.00
10.00
0.00
Lakshadweep
Andaman and Nicobar Islands
Uttarakhand
Tamil Nadu
Lakshadweep and kerala has highest Literacy Rate in India
Prev scene
Next scene
Scene 3 of 9
0:05.0
0:05.0


Edit
Analytics
Filters
Bottom Literacy Rate
Bottom 10 Literate States
Avg (Sum)
30.00
25.00
20.00
15.00
10.00
5.00
0.00
Assam
Tripura
Madhya Pradesh
Odisha
Chhattisgarh
Bihar
Gujarat
West Bengal
Jharkhand
Dadra and Naga...
States/UTs
Assam and Tripura are bottom Literacy States
Prev scene
Next scene
Scene 4 of 9
0:05.0
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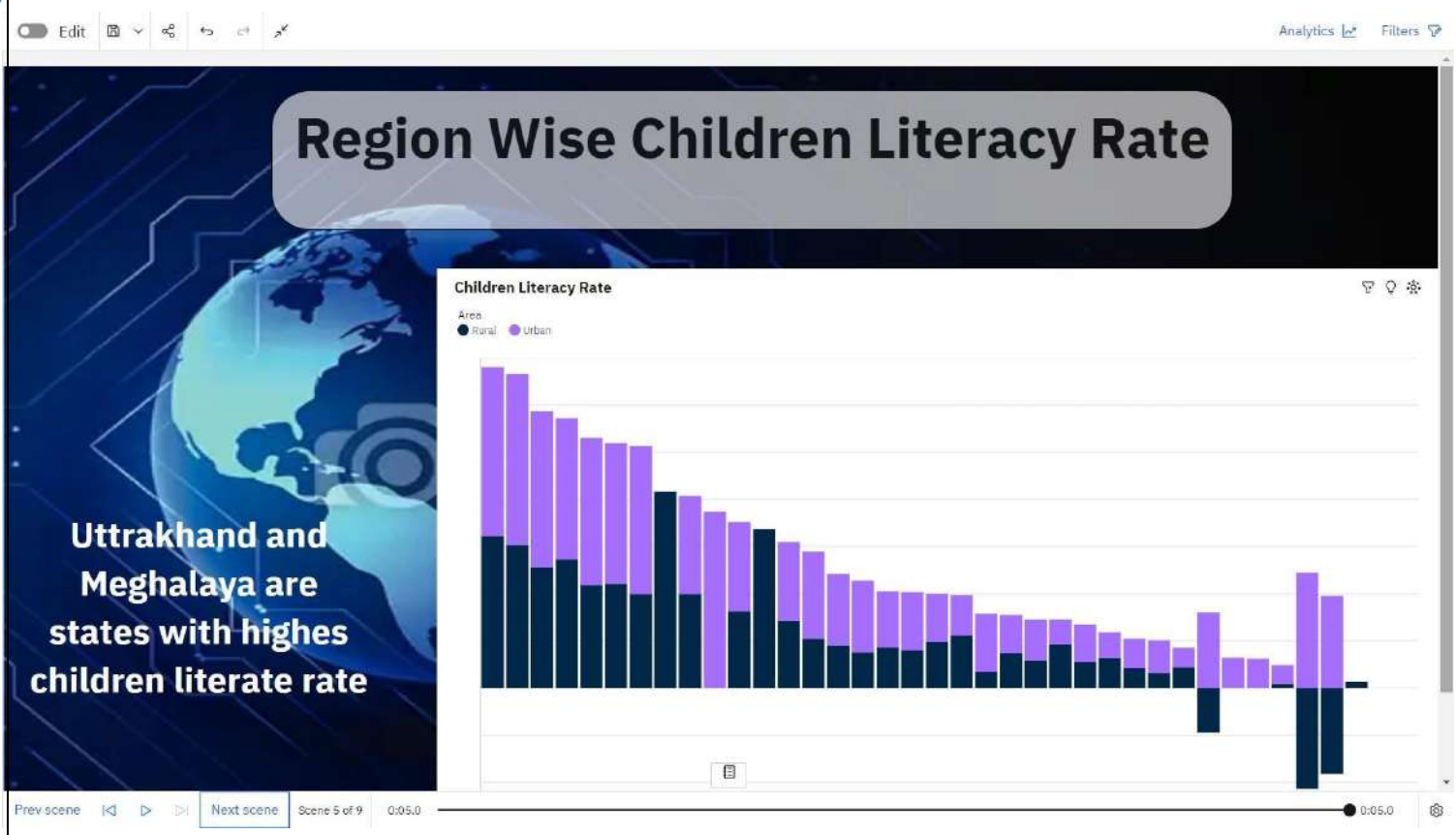
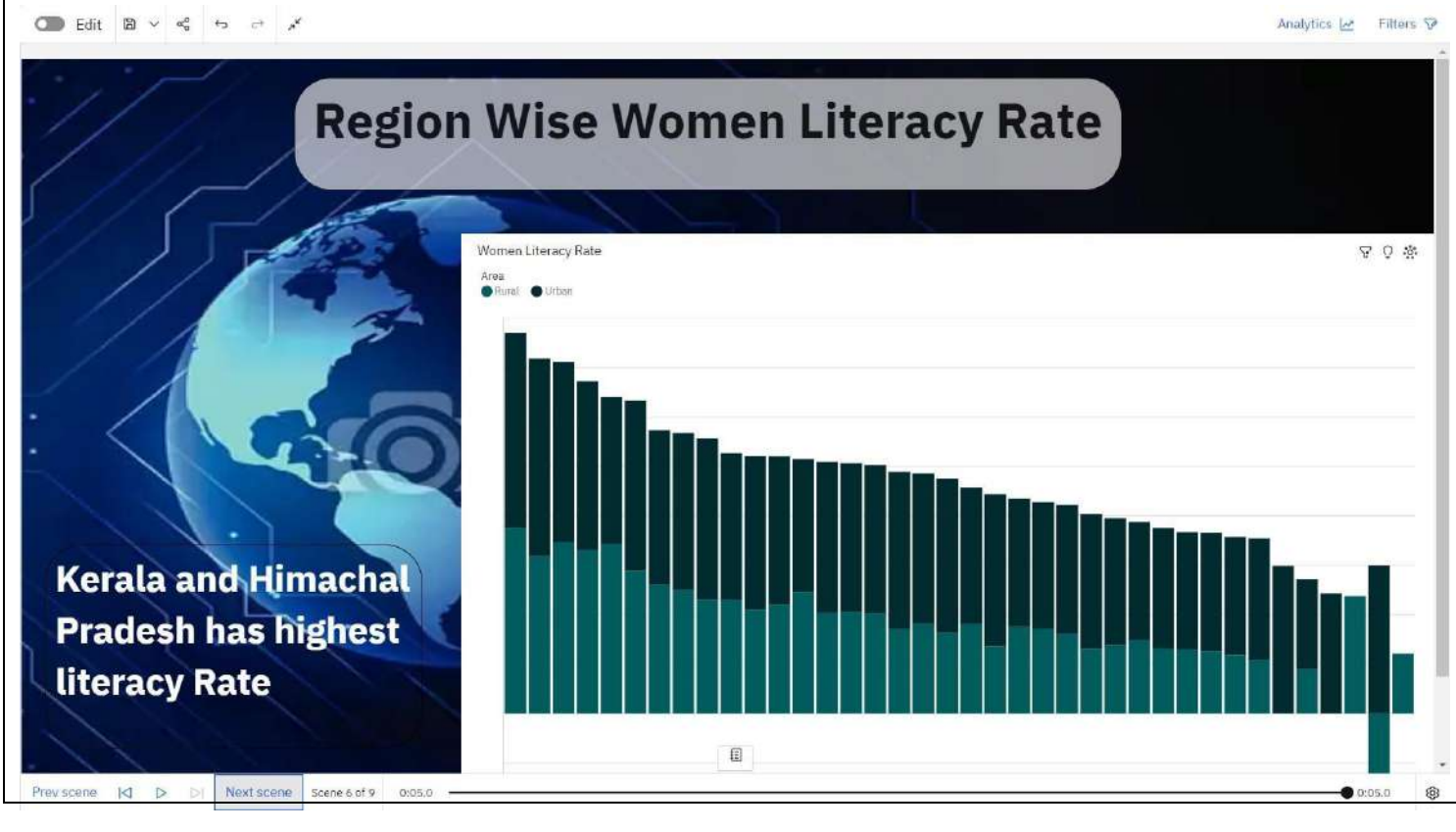
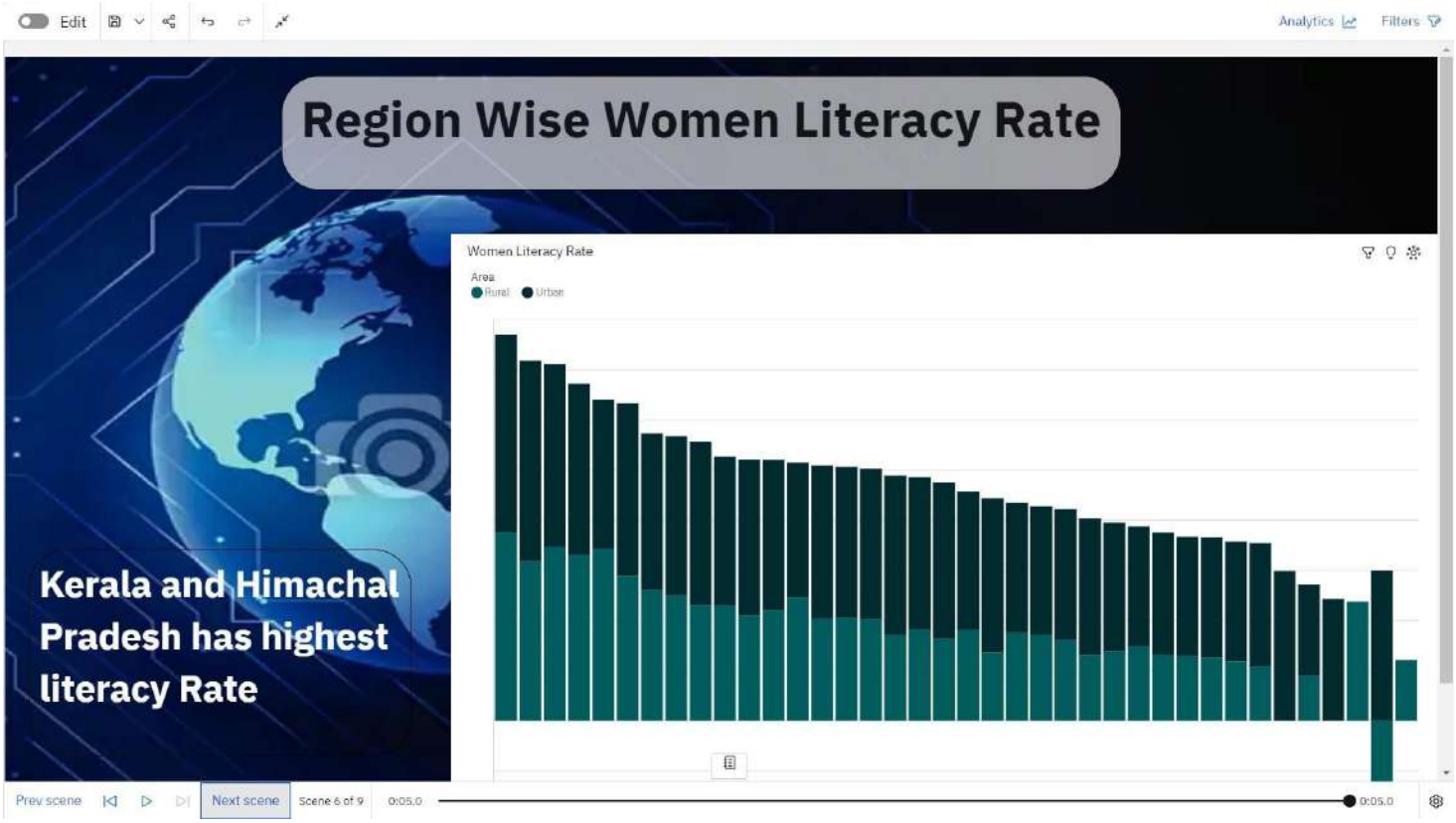
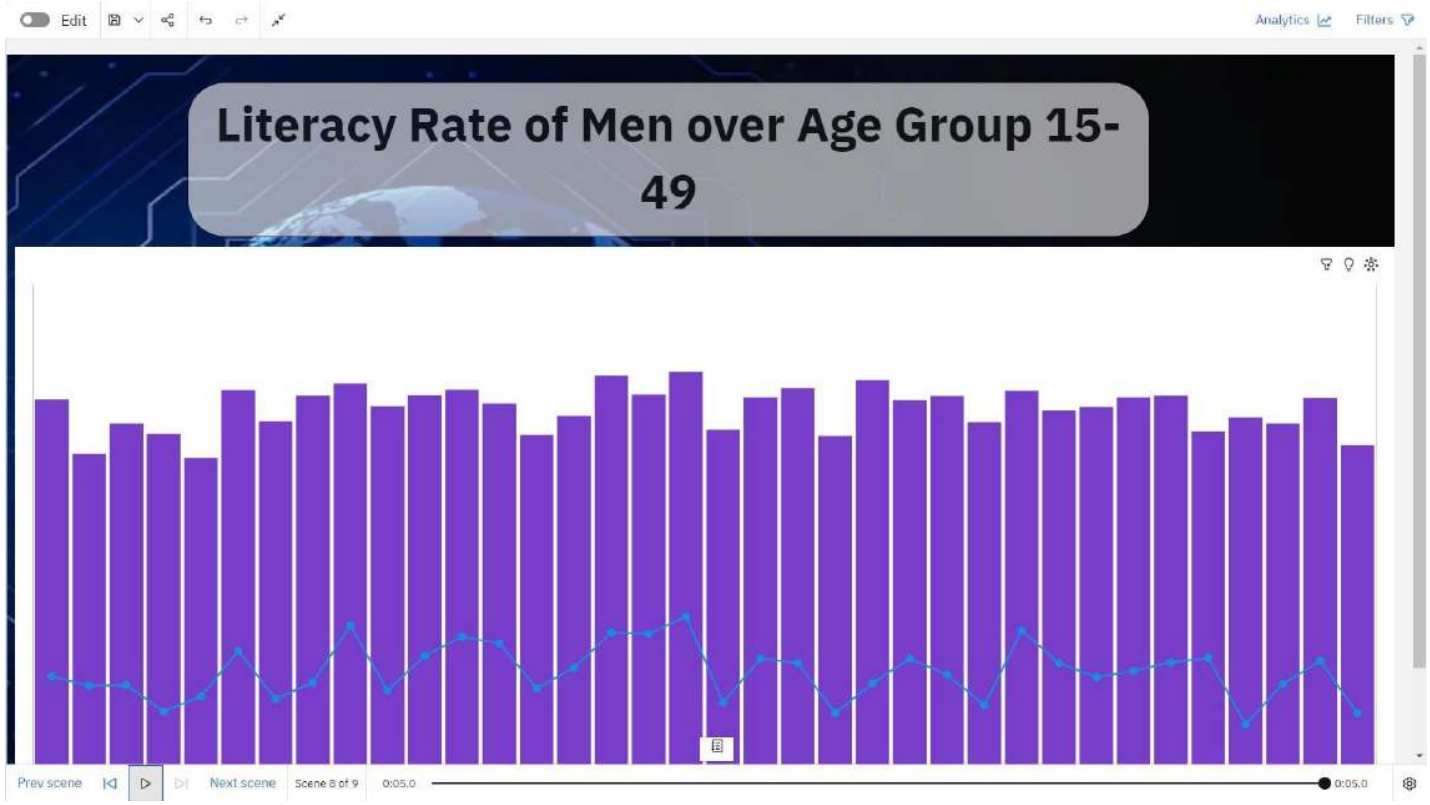

Edit
Analytics
Filters
Region Wise Children Literacy Rate
Children Literacy Rate
Area
Rural
Urban
Uttrakhand and Meghalaya are states with highes children literate rate
Prev scene
Next scene
Scene 5 of 9
0:05.0
0:05.0

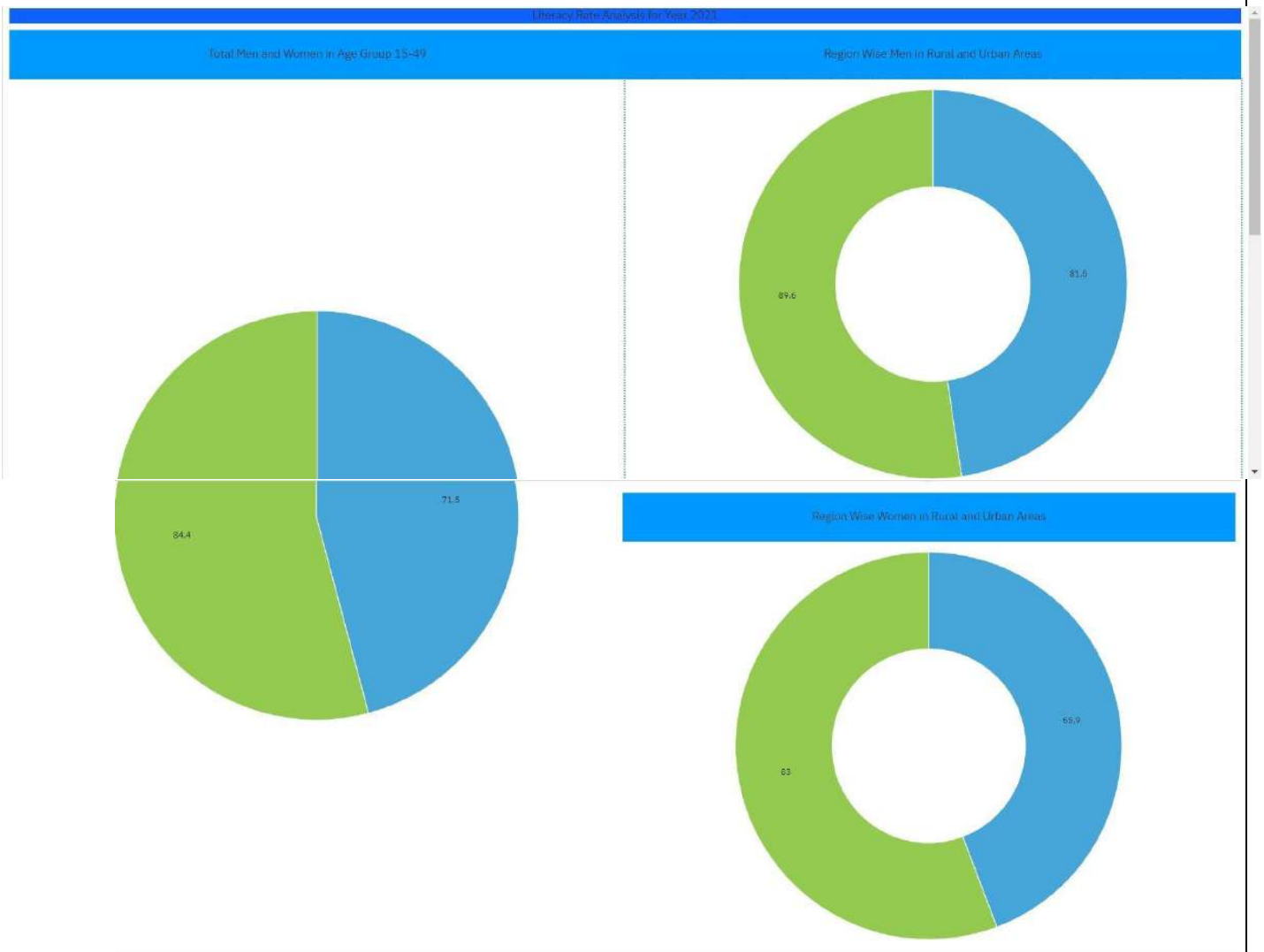

Edit
Analytics
Filters
Region Wise Women Literacy Rate
Women Literacy Rate
Area
Rural
Urban
Kerala and Himachal Pradesh has highest literacy Rate
Prev scene
Next scene
Scene 6 of 9
0:05.0
0:05.0

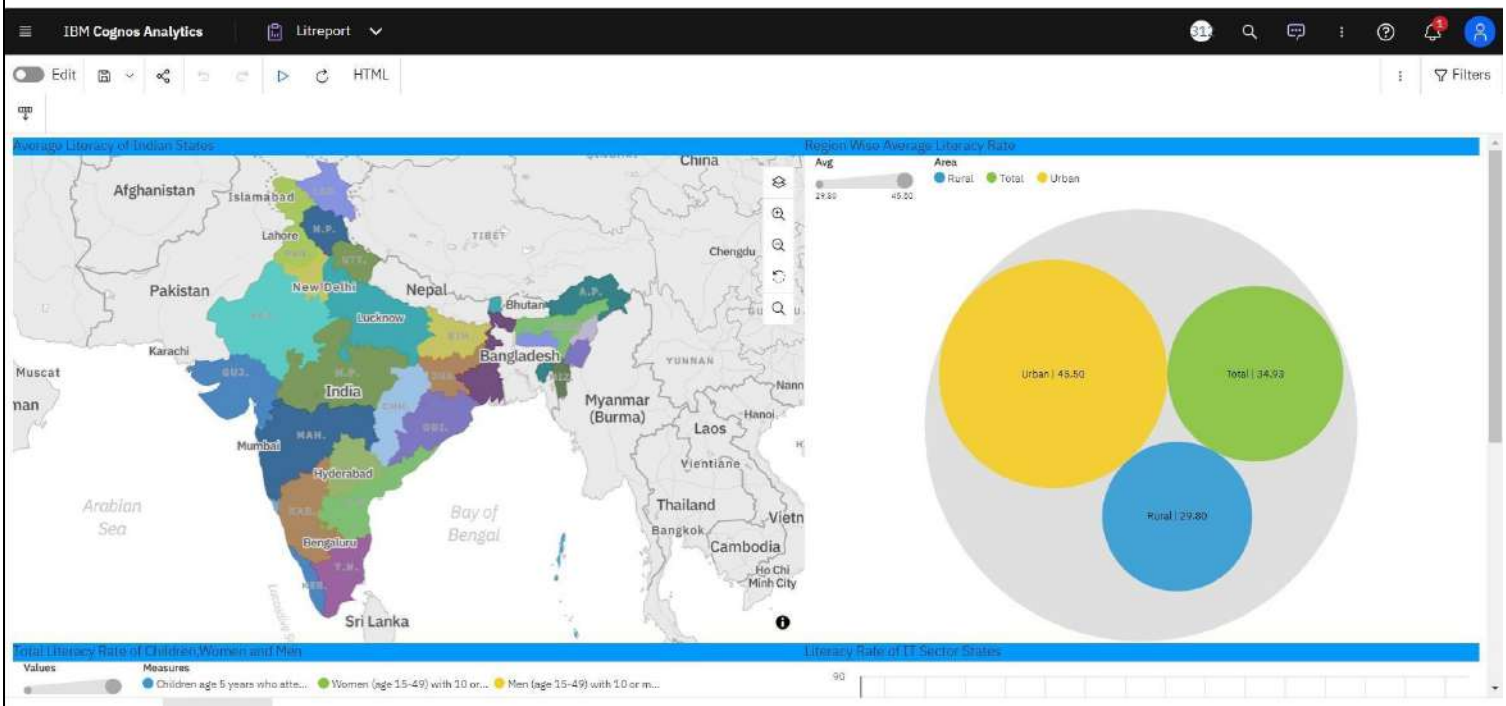

Edit
Analytics
Filters
Region Wise Women Literacy Rate
Kerala and Himachal Pradesh has highest literacy Rate
Women Literacy Rate
Area
Rural
Urban
Prev scene
Next scene
Scene 6 of 9
0:05.0
0:05.0


Edit
Analytics
Filters
Literacy Rate of Men over Age Group 15-49
Prev scene
Next scene
Scene 8 of 9
0:05.0
0:05.0

Edit
Analytics
Filters
Literacy Rate of Women over Age Group 15-49
Prev scene
Next scene
Scene 9 of 9
0:05.0
0:05.0

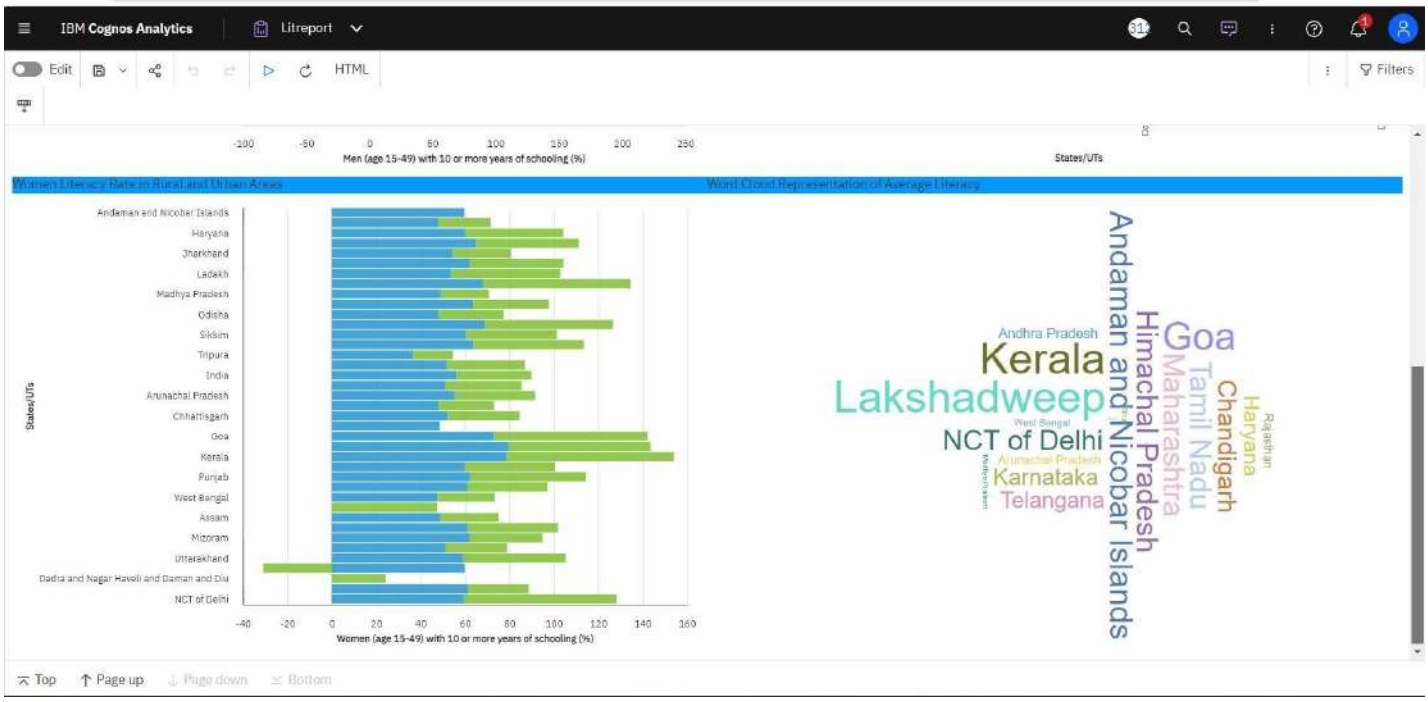
REPORT


Literacy Rate Analysis for Year 2021
Total Men and Women in Age Group 15-49
71.5
84.4
Region Wise Men in Rural and Urban Areas
81.6
89.6
Region Wise Women in Rural and Urban Areas
65.9
83

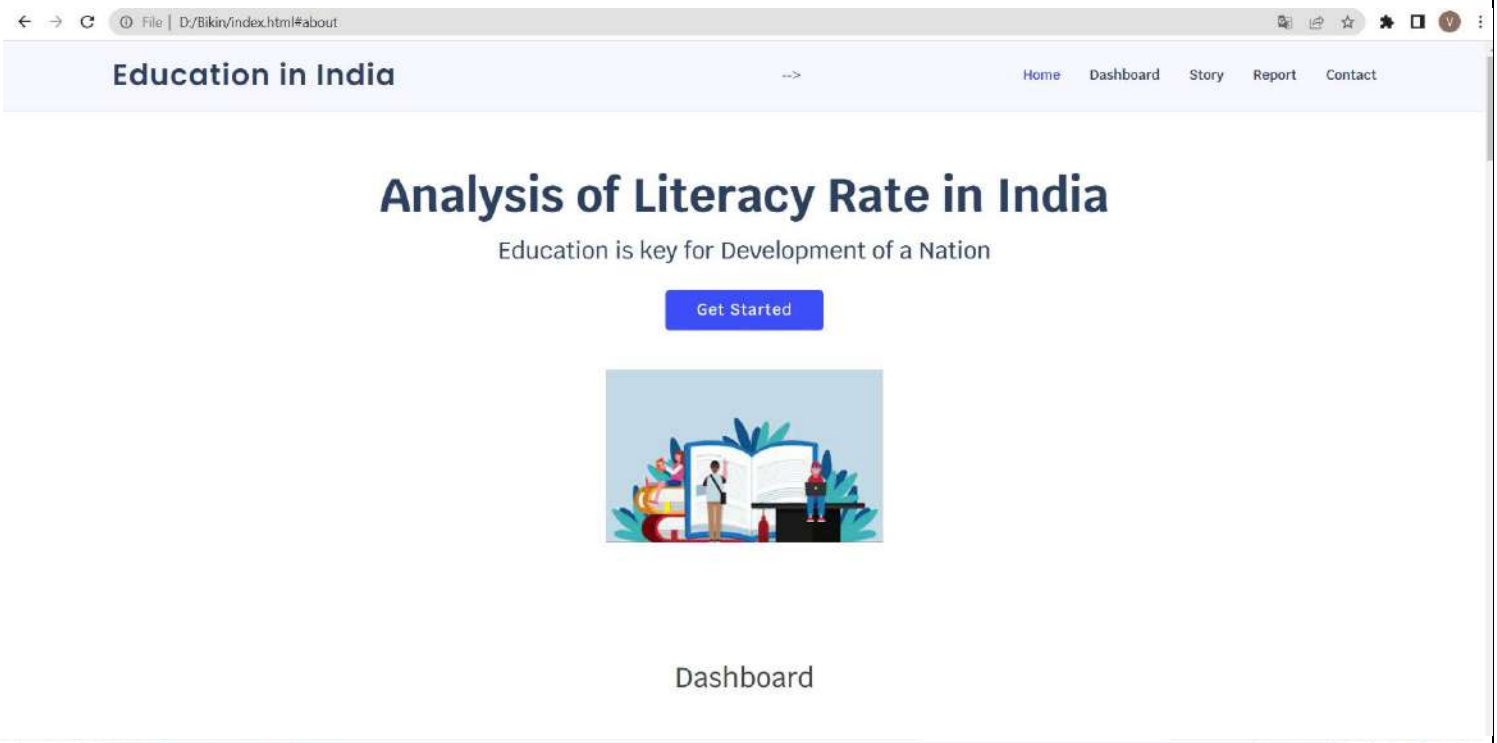

IBM Cognos Analytics
Litreport
Edit
HTML
Filters
Average Literacy of Indian States
Region Wise Average Literacy Rate
Avg
Area
Rural
Total
Urban
29.80
45.50
Urban | 45.50
Total | 34.93
Rural | 29.80
Afghanistan
Islamabad
Lahore
Pakistan
New Delhi
Nepal
Lucknow
Bhutan
Bangladesh
Karachi
Muscat
India
Mumbai
Hyderabad
Bengaluru
Arabian Sea
Bay of Bengal
Sri Lanka
China
Chengdu
TIBET
YUNNAN
Myanmar (Burma)
Laos
Hanoi
Vientiane
Thailand
Bangkok
Cambodia
Ho Chi Minh City
Total Literacy Rate of Children,Women and Men
Literacy Rate of IT Sector States
Values
Measures
Children age 5 years who atte...
Women (age 15-49) with 10 or...
Men (age 15-49) with 10 or m...
90

IBM Cognos Analytics
Litreport
Edit
HTML
Filters
Sri Lanka
Total Literacy Rate of Children,Women and Men
Literacy Rate of IT Sector States
131
85.16666666666667
43.7
Values
States/UTs
India
Andhra Pradesh
Jharkhand
Chandigarh
Gujarat
Himachal Prad...
Madhya Pradesh
NCT of Delhi
Tamil Nadu
West Bengal
Haryana
Karnataka
Kerala
Maharashtra
Telan...
Top
Page up
Page down
Bottom

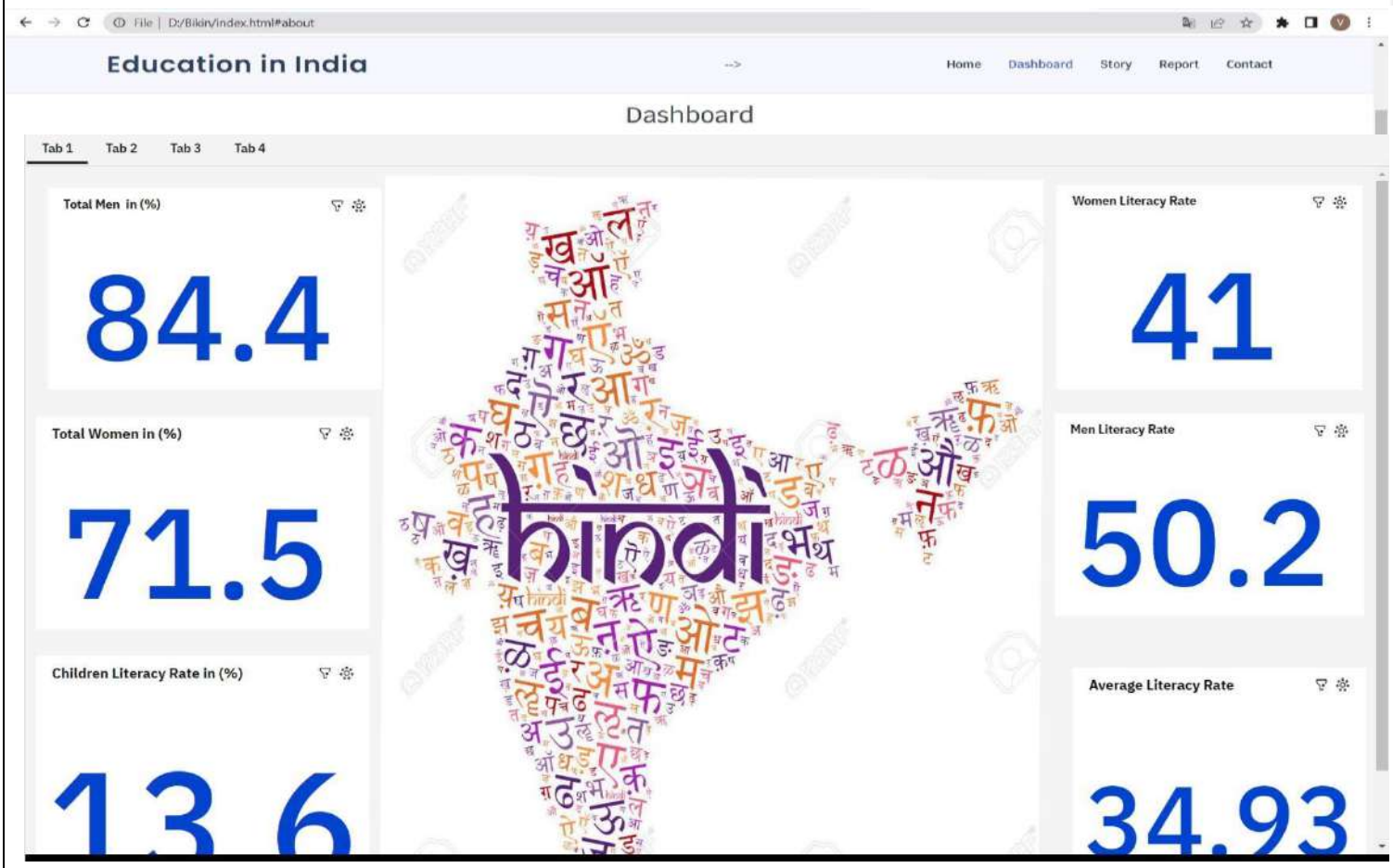
IBM Cognos Analytics
Litreport
Edit
HTML
Filters
Men Literacy Rate in Rural and Urban Area
Area
Total
Urban
Rural
India
Andhra Pradesh
Gujarat
Jammu and Kashmir
Karnataka
Lakshadweep
Manipur
Odisha
Sikkim
Tripura
Arunachal Pradesh
Chhattisgarh
Goa
Kerala
NCT of Delhi
Telangana
Andaman and Nicobar Islands
Maharashtra
Rajasthan
Dadra and Nagar Haveli and Daman and Diu
States/UTs
-100
-50
0
50
100
150
200
250
Men (age 15-49) with 10 or more years of schooling (%)
Children Literacy Rate in Rural and Urban Area
Children age 5 years who attended pre-pr...
40
20
0
-20
States/UTs
Women Literacy Rate in Rural and Urban Areas
Andaman and Nicobar Islands
Word Cloud Representation of Average Literacy
Top
Page up
Page down
Bottom

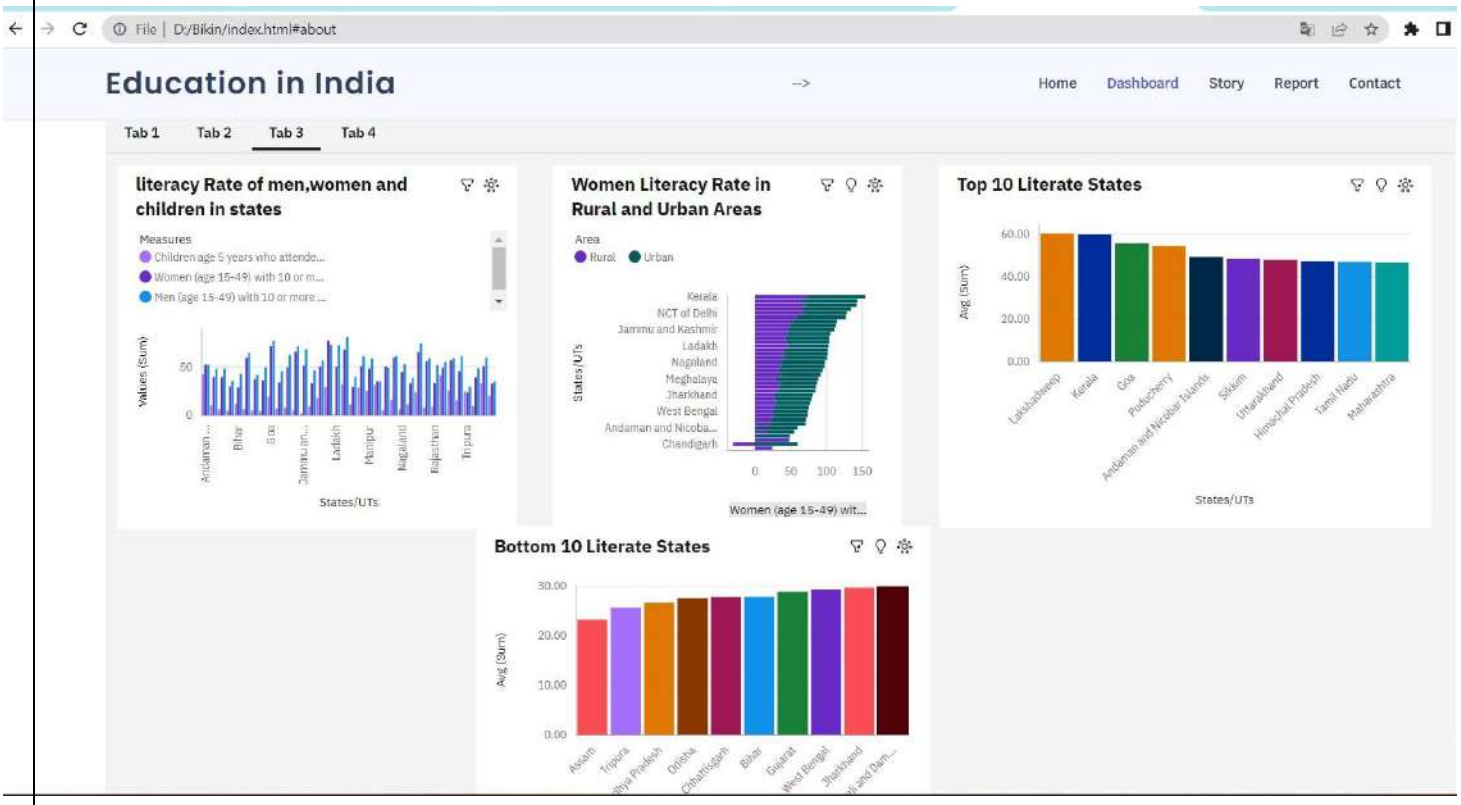

IBM Cognos Analytics
Litreport
Edit
HTML
Filters
-100
-50
0
50
100
150
200
250
Men (age 15-49) with 10 or more years of schooling (%)
States/UTs
Women Literacy Rate in Rural and Urban Areas
Word Cloud Representation of Average Literacy
Andaman and Nicobar Islands
Haryana
Jharkhand
Ladakh
Madhya Pradesh
Odisha
Sikkim
Tripura
India
Arunachal Pradesh
Chhattisgarh
Goa
Kerala
Punjab
West Bengal
Assam
Mizoram
Uttarakhand
Dadra and Nagar Haveli and Daman and Diu
NCT of Delhi
States/UTs
-40
-20
0
20
40
60
80
100
120
140
160
Women (age 15-49) with 10 or more years of schooling (%)
Andhra Pradesh
Kerala
Lakshadweep
West Bengal
NCT of Delhi
Arunachal Pradesh
Karnataka
Telangana
Andaman and Nicobar Islands
Himachal Pradesh
Goa
Maharashtra
Tamil Nadu
Chandigarh
Haryana
Rajasthan
Top
Page up
Page down
Bottom

WEB INTEGRATION

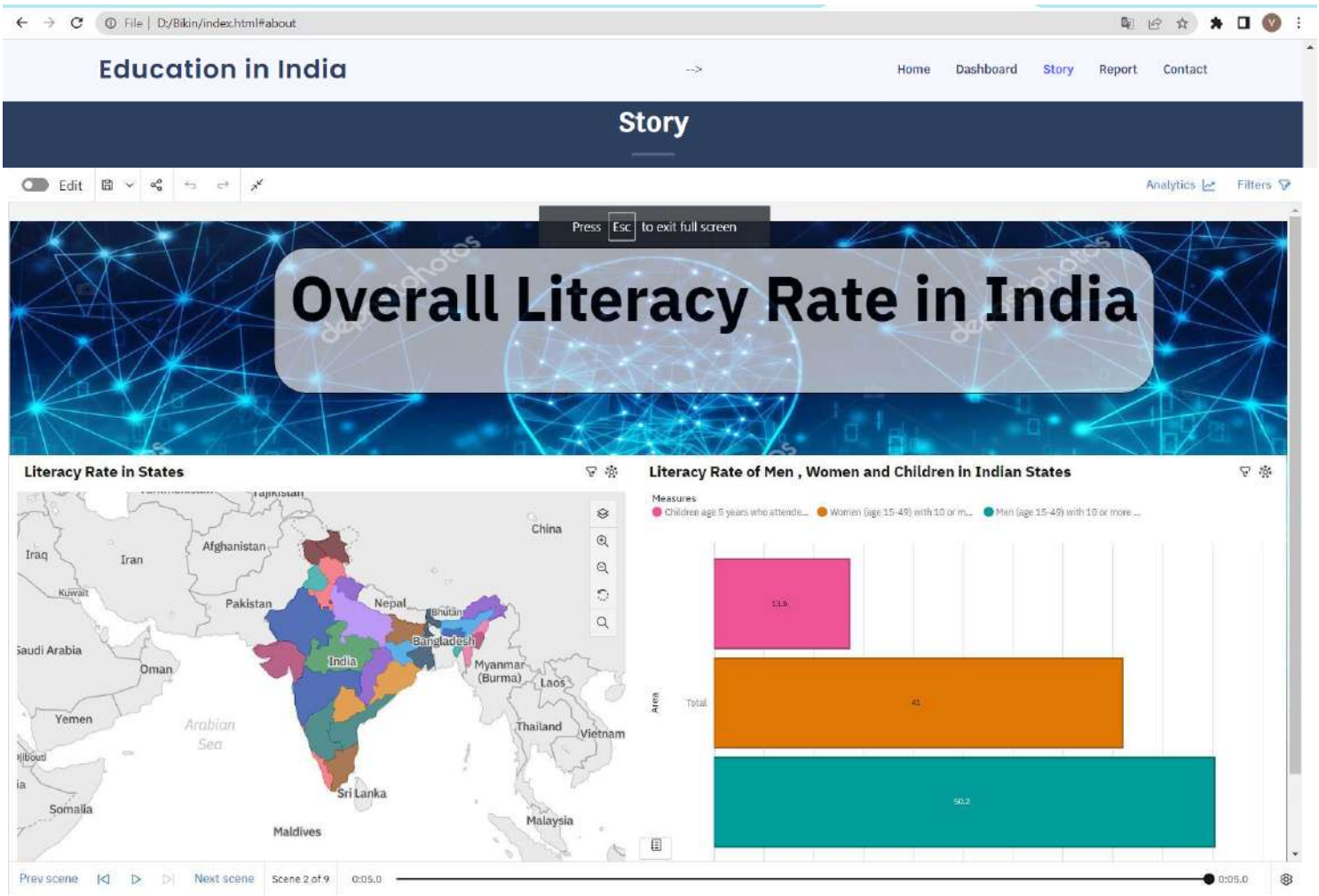


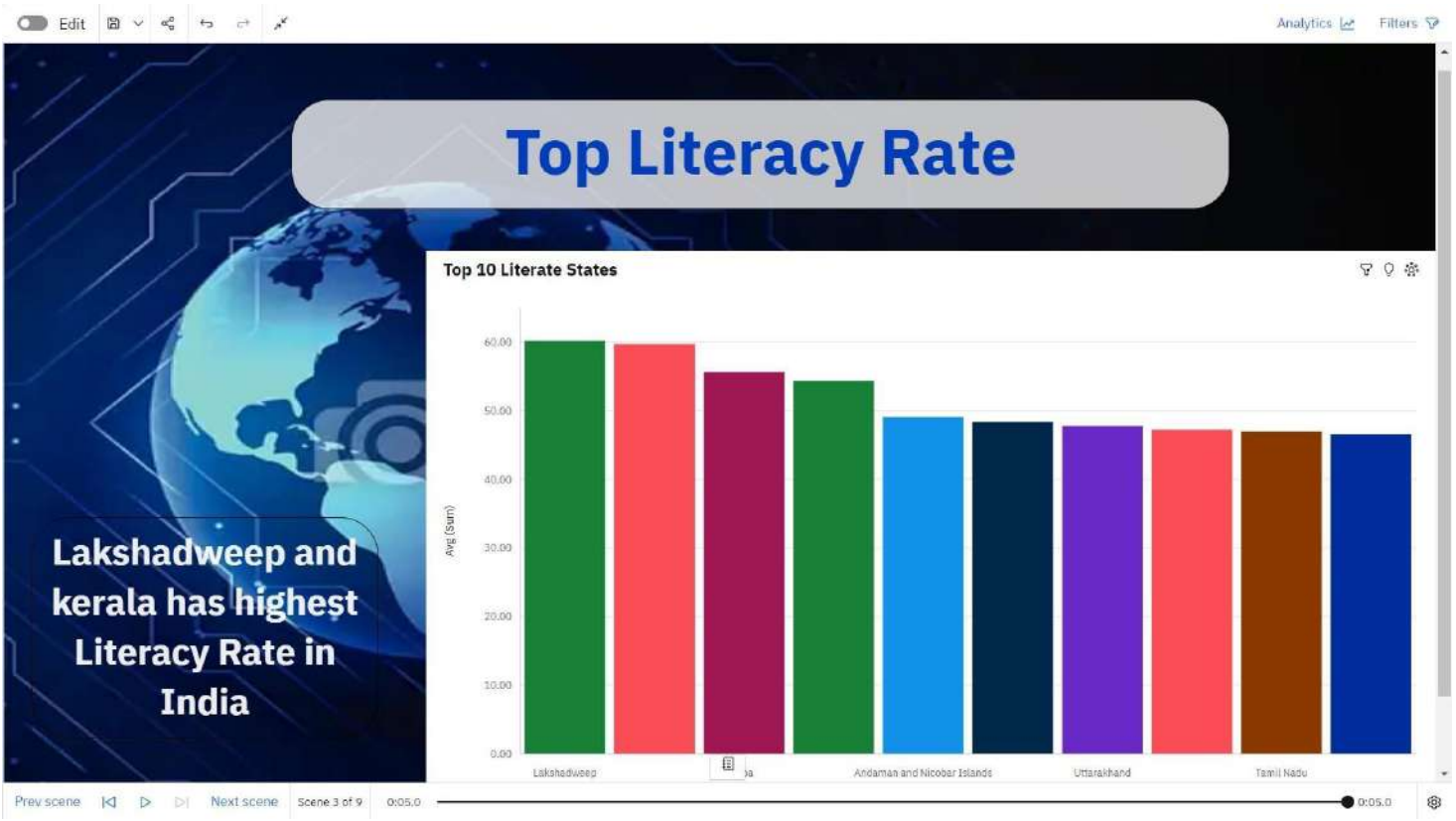
Dashboard

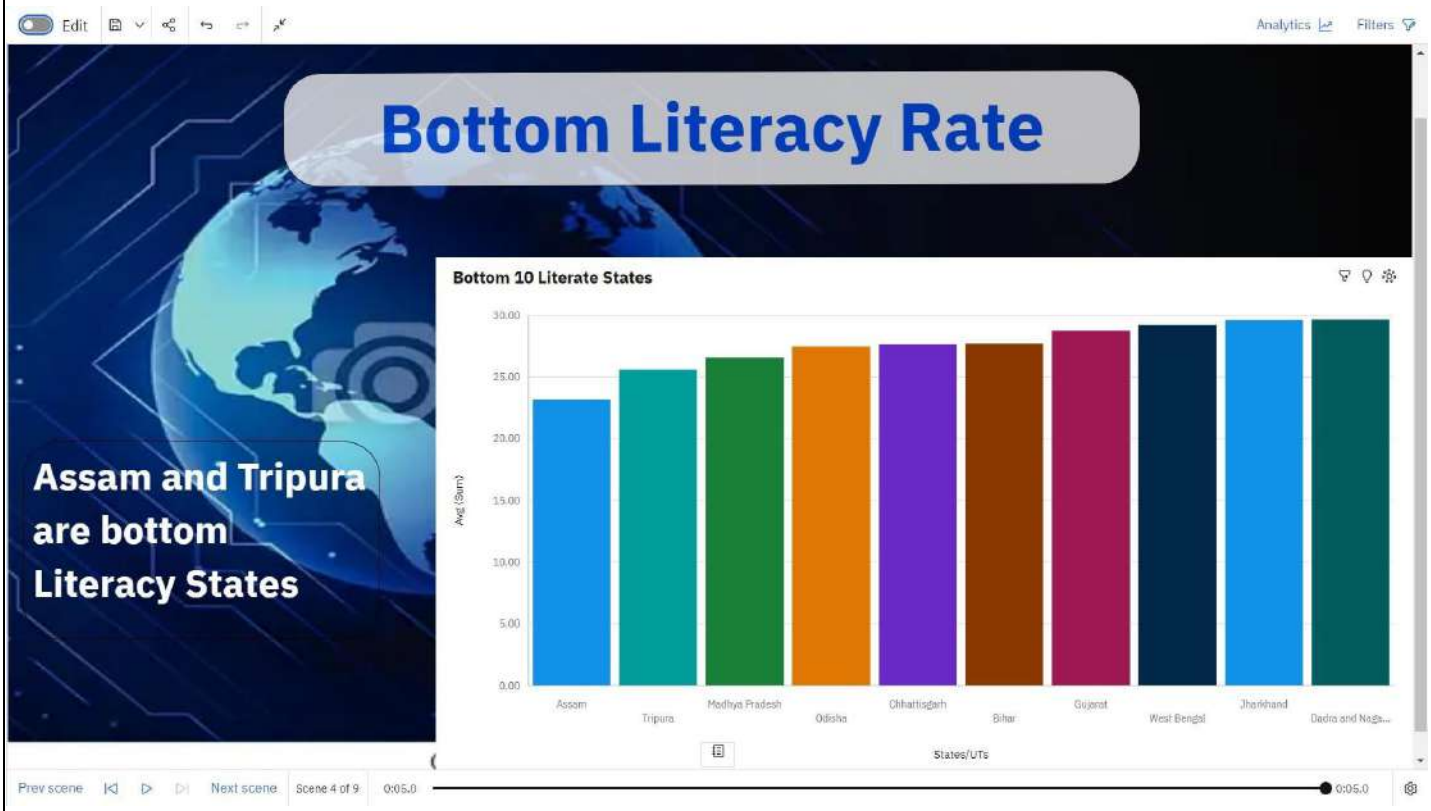


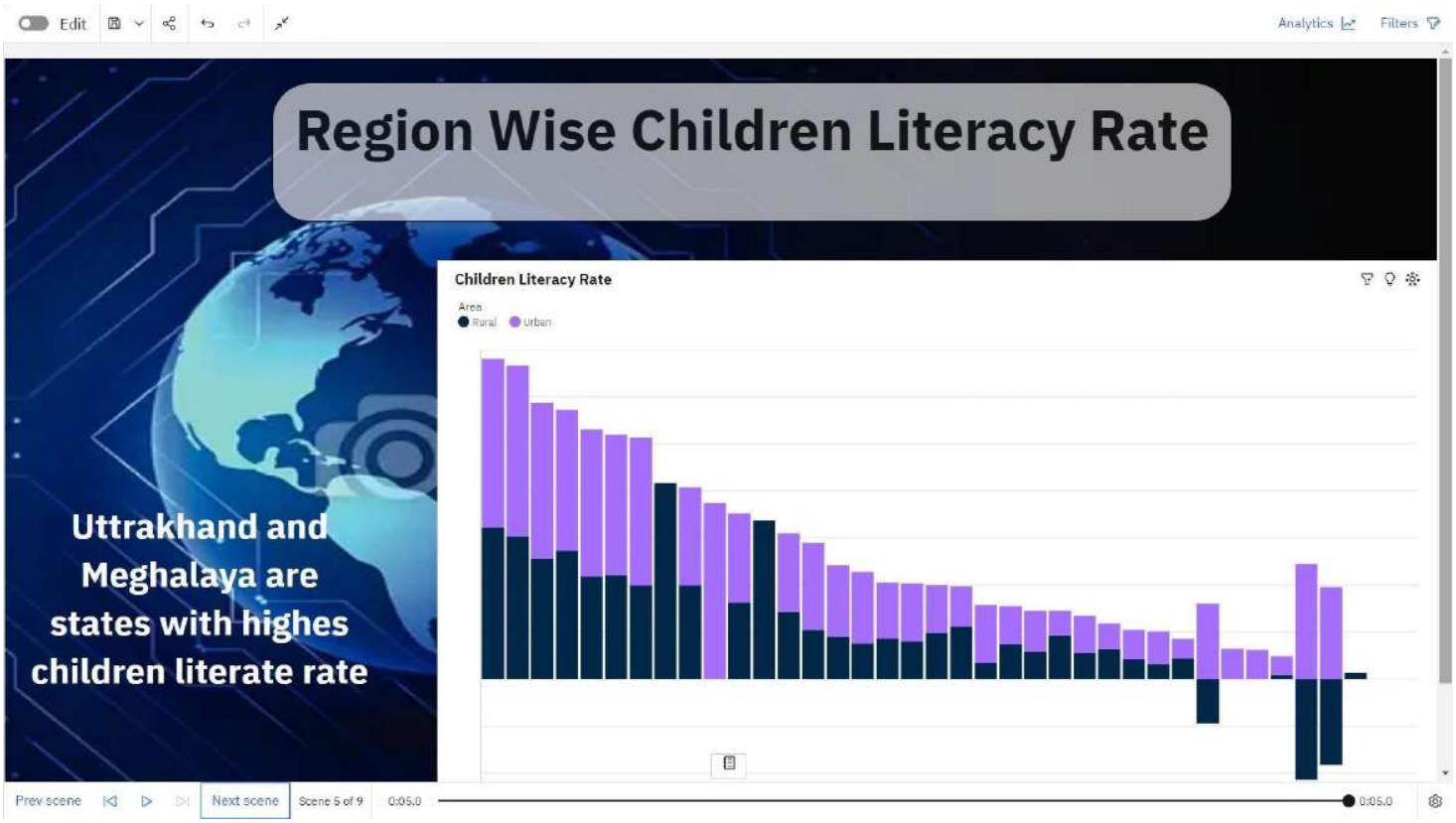

File | D:/Bikin/index.html#about
Education in India
-->
Home
Dashboard
Story
Report
Contact
Tab 1
Tab 2
Tab 3
Tab 4
literacy Rate of men,women and children in states
Measures
Children age 5 years who attende...
Women (age 15-49) with 10 or m...
Men (age 15-49) with 10 or more ...
Values (Sum)
States/UTs
Women Literacy Rate in Rural and Urban Areas
Area
Rural
Urban
States/UTs
Kerala
NCT of Delhi
Jammu and Kashmir
Ladakh
Nagaland
Meghalaya
Jharkhand
West Bengal
Andaman and Nicoba...
Chandigarh
Women (age 15-49) wit...
Top 10 Literate States
Avg (Sum)
States/UTs
Lakshadweep
Kerala
Goa
Puducherry
Andaman and Nicobar Islands
Sikkim
Uttarakhand
Himachal Pradesh
Tamil Nadu
Maharashtra
Bottom 10 Literate States
Avg (Sum)
Assam
Tripura
Odisha
Chhattisgarh
Bihar
Gujarat
West Bengal
Jharkhand

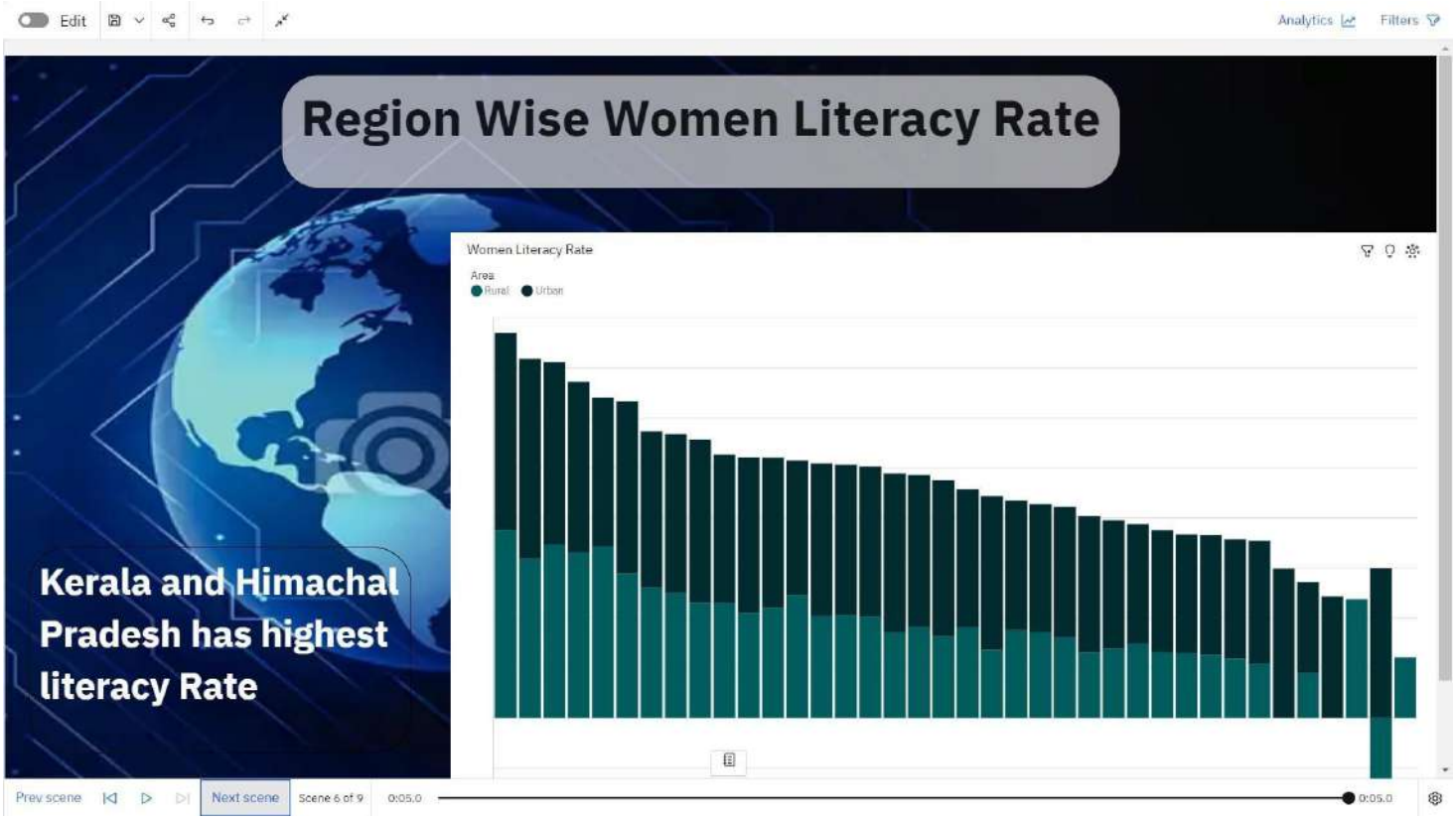
File | D:/Bikin/index.html#about
Education in India
-->
Home
Dashboard
Story
Report
Contact
Tab 1
Tab 2
Tab 3
Tab 4
Men with Age Group 15-49 Over Those who attended Schooling
Column
Men (age 15-49) (%) (Average)
Line
Men (age 15-49) with 10 or more ...
States/UTs

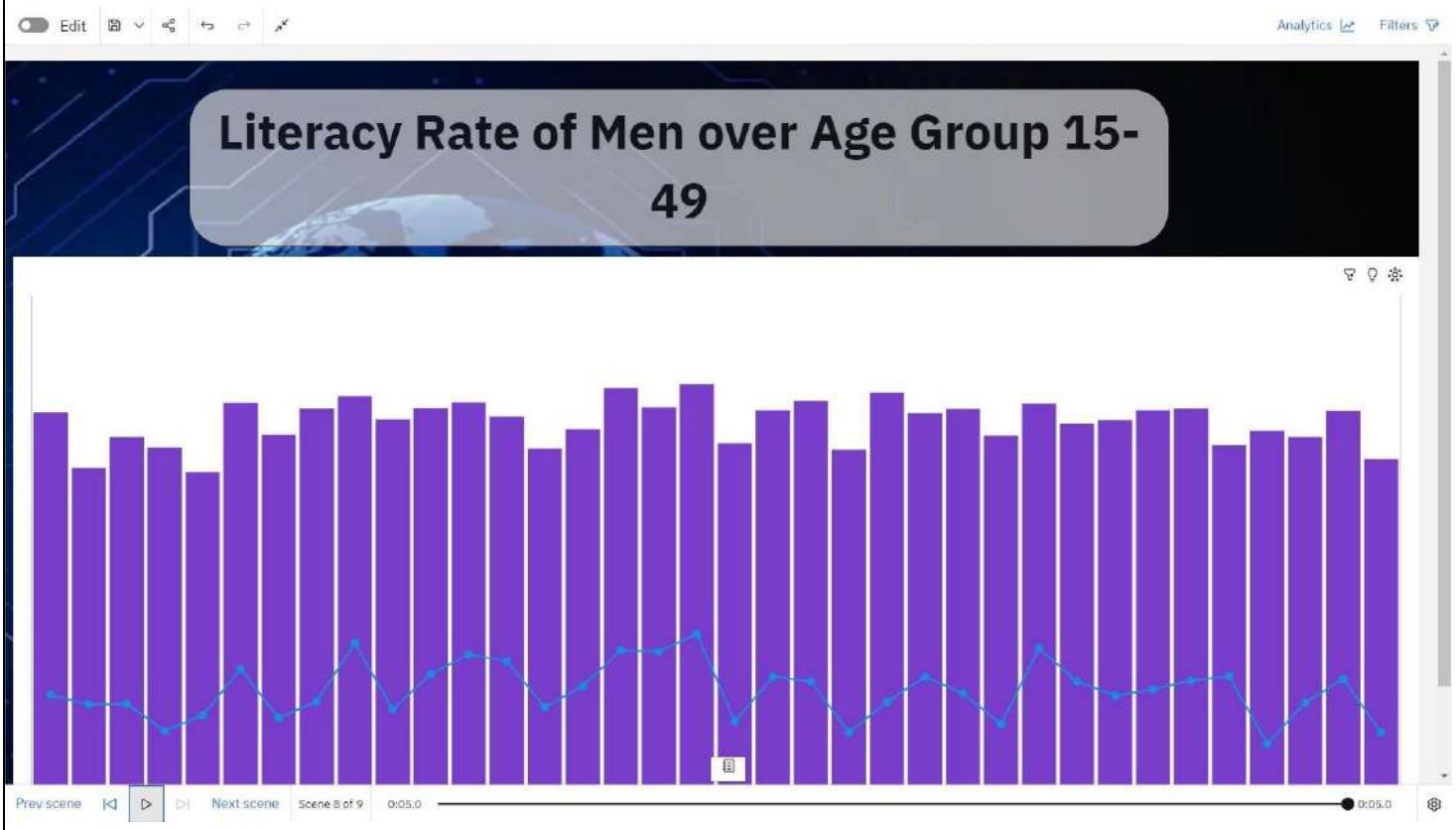

File | D:/Bikin/index.html#about
Education in India
-->
Home
Dashboard
Story
Report
Contact
Story
Edit
Analytics
Filters
Press Esc to exit full screen
Overall Literacy Rate in India
Literacy Rate in States
China
Iraq
Iran
Afghanistan
Kuwait
Pakistan
Nepal
Bhutan
Bangladesh
India
Myanmar (Burma)
Laos
Saudi Arabia
Oman
Yemen
Arabian Sea
Thailand
Vietnam
Sri Lanka
Somalia
Maldives
Malaysia
Literacy Rate of Men , Women and Children in Indian States
Measures
Children age 5 years who attende...
Women (age 15-49) with 10 or m...
Men (age 15-49) with 10 or more ...
Area
Total
13.6
41
50.2
Prev scene
Next scene
Scene 2 of 9
0:05.0
0:05.0


Edit
Analytics
Filters
Top Literacy Rate
Lakshadweep and kerala has highest Literacy Rate in India
Top 10 Literate States
Avg (Sum)
60.00
50.00
40.00
30.00
20.00
10.00
0.00
Lakshadweep
Andaman and Nicobar Islands
Uttarakhand
Tamil Nadu
Prev scene
Next scene
Scene 3 of 9
0:05.0
0:05.0


Edit
Analytics
Filters
Bottom Literacy Rate
Assam and Tripura are bottom Literacy States
Bottom 10 Literate States
Avg (Sum)
30.00
25.00
20.00
15.00
10.00
5.00
0.00
Assam
Tripura
Madhya Pradesh
Odisha
Chhattisgarh
Bihar
Gujarat
West Bengal
Jharkhand
States/UTs
Prev scene
Next scene
Scene 4 of 9
0:05.0
0:05.0


Edit
Analytics
Filters
Region Wise Children Literacy Rate
Children Literacy Rate
Area
Rural
Urban
Uttrakhand and Meghalaya are states with highes children literate rate
Prev scene
Next scene
Scene 5 of 9
0:05.0
0:05.0


Edit
Analytics
Filters
Region Wise Women Literacy Rate
Women Literacy Rate
Area
Rural
Urban
Kerala and Himachal Pradesh has highest literacy Rate
Prev scene
Next scene
Scene 6 of 9
0:05.0
0:05.0


Edit
Analytics
Filters
Literacy Rate of Men over Age Group 15-49
Prev scene
Next scene
Scene 8 of 9
0:05.0
0:05.0

Edit
Analytics
Filters
Literacy Rate of Women over Age Group 15-49
Prev scene
Next scene
Scene 9 of 9
0:05.0
0:05.0

File | D:/Bikin/index.html#about

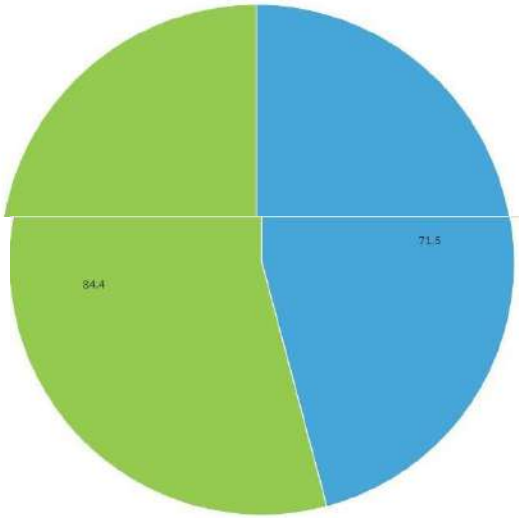
Education in India

--> Home Dashboard Story Report Contact

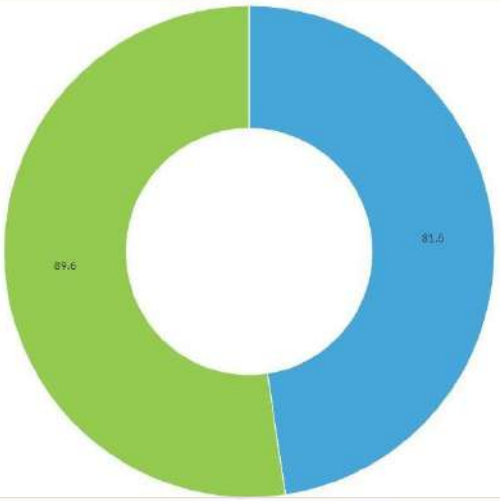
Report

Literacy Rate Analysis for Year 2021

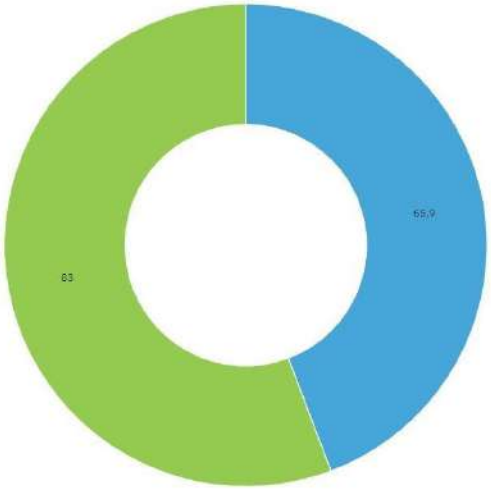
Total Men and Women in Age Group 15-49

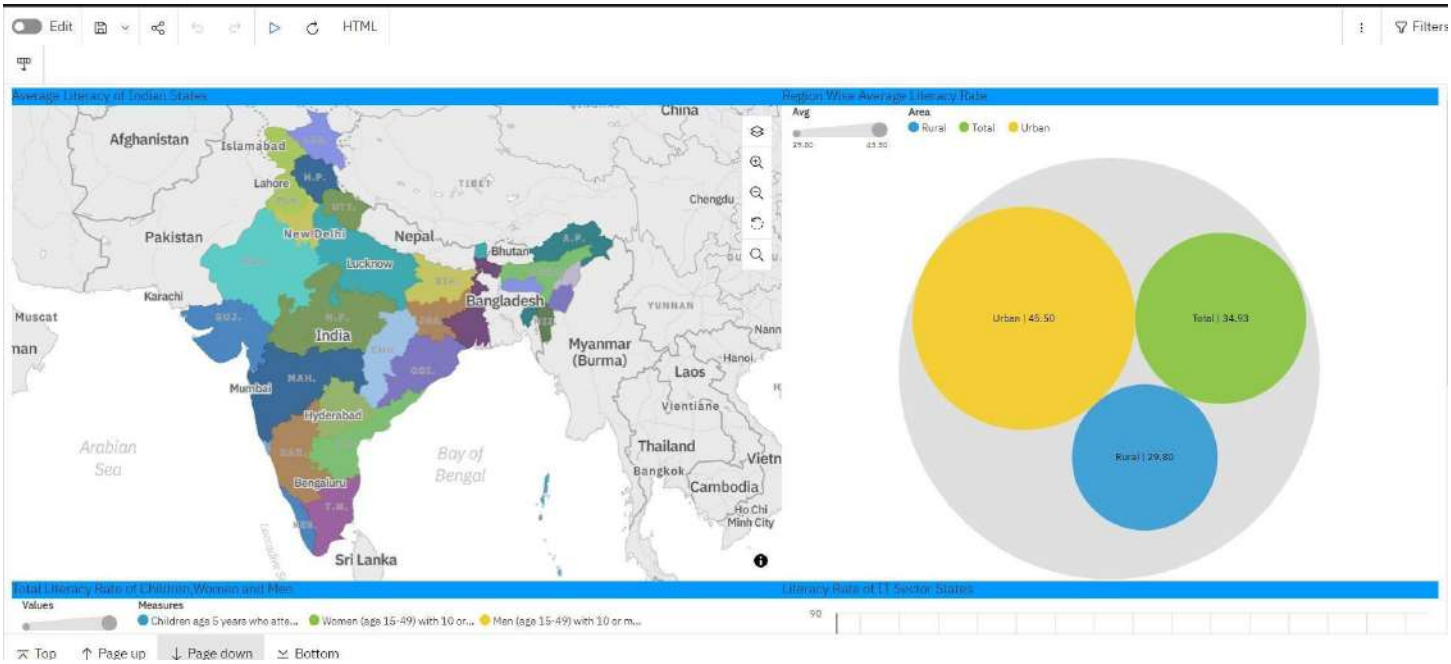


Region Wise Men in Rural and Urban Areas

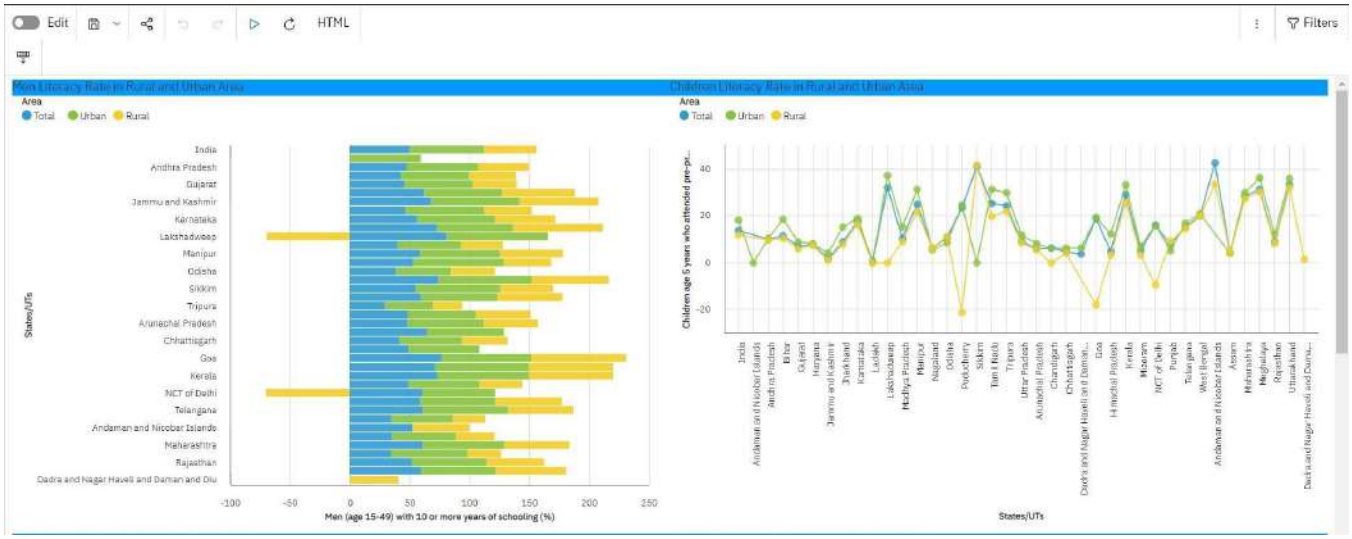


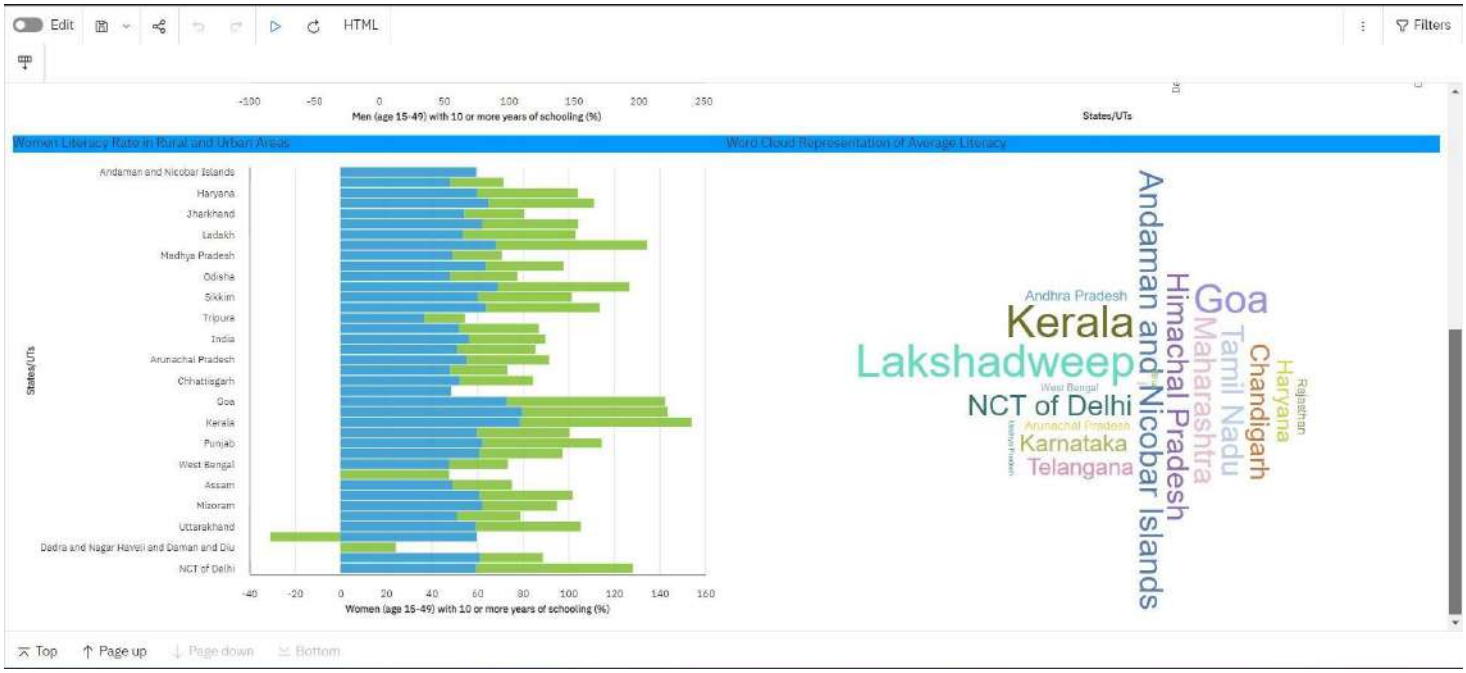
Region Wise Women in Rural and Urban Areas

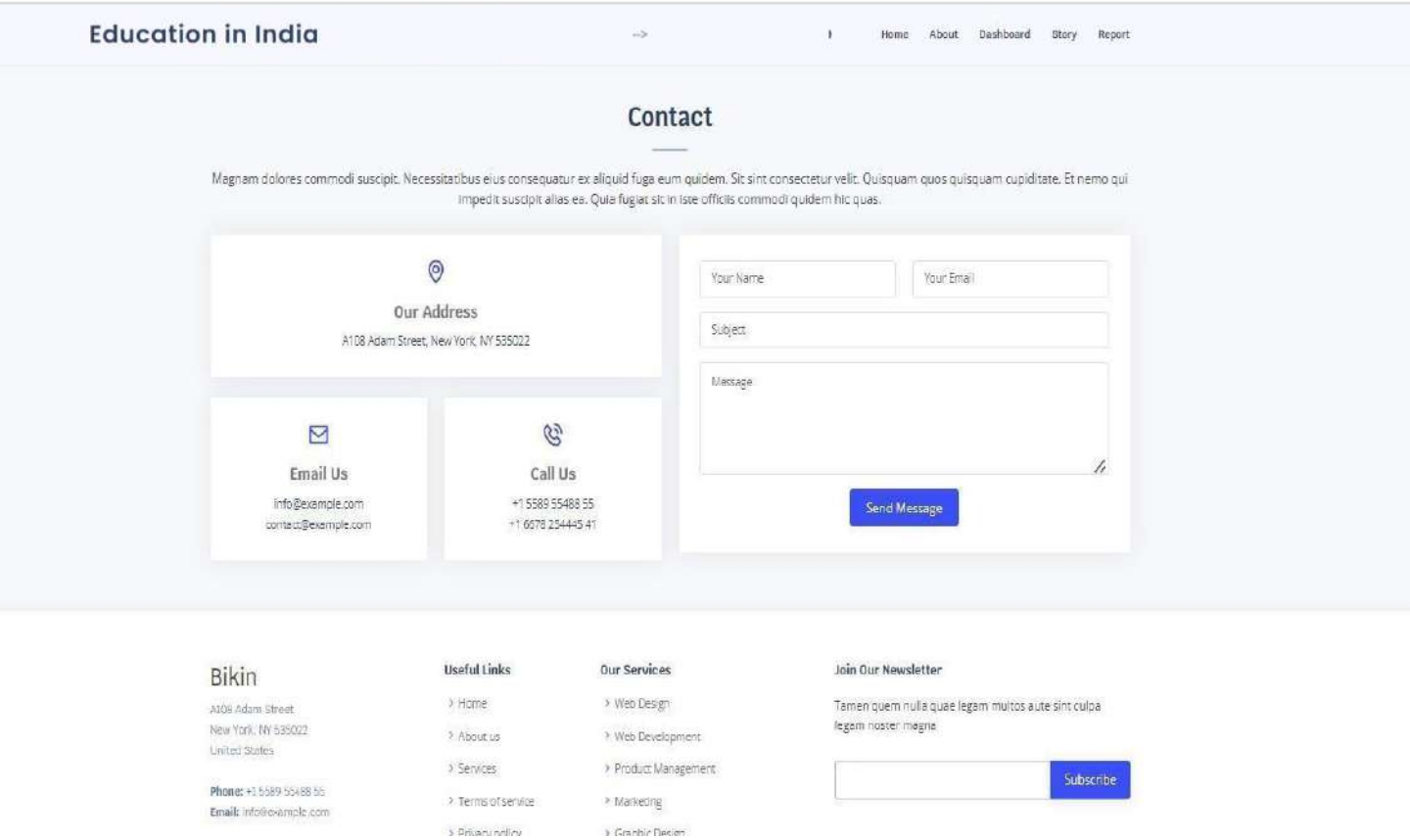



Edit
HTML
Filters
Average Literacy of Indian States
Region Wise Average Literacy Rate
Avg
Area
Rural
Total
Urban
Afghanistan
Islamabad
Lahore
Pakistan
New Delhi
Nepal
Bhutan
Lucknow
Karachi
Bangladesh
India
Myanmar (Burma)
Laos
Hanoi
Vientiane
Thailand
Bangkok
Cambodia
Ho Chi Minh City
Mumbai
Hyderabad
Bengaluru
Sri Lanka
China
Chengdu
Tibet
Yunnan
Arabian Sea
Bay of Bengal
Urban | 46.50
Total | 34.93
Rural | 29.80
Total Literacy Rate of Children,Women and Men
Values
Measures
Children age 5 years who atte...
Women (age 15-49) with 10 or...
Men (age 15-49) with 10 or m...
Literacy Rate of IT Sector States
Top
Page up
Page down
Bottom

Edit
HTML
Filters
Sri Lanka
Total Literacy Rate of Children,Women and Men
Literacy Rate of IT Sector States
131
85.1666666666667
43.7
Values
States/UTs
India
Andhra Pradesh
Jharkhand
Chandigarh
Gujarat
Himachal Prad...
Madhya Pradesh
NCT of Delhi
Tamil Nadu
West Bengal
Haryana
Karnataka
Kerala
Maharashtra
Telan...
Top
Page up
Page down
Bottom


Edit
HTML
Filters
Men Literacy Rate in Rural and Urban Area
Children Literacy Rate in Rural and Urban Area
Area
Total
Urban
Rural
States/UTs
Men (age 15-49) with 10 or more years of schooling (%)
Children age 5 years who attended pre-pr...
States/UTs


Edit
HTML
Filters
Men (age 15-49) with 10 or more years of schooling (%)
States/UTs
Women Literacy Rate in Rural and Urban Areas
Word Cloud Representation of Average Literacy
Andaman and Nicobar Islands
Haryana
Jharkhand
Ladakh
Madhya Pradesh
Odisha
Sikkim
Tripura
India
Arunachal Pradesh
Chhattisgarh
Goa
Kerala
Punjab
West Bengal
Assam
Mizoram
Uttarakhand
Dadra and Nagar Haveli and Daman and Diu
NCT of Delhi
Women (age 15-49) with 10 or more years of schooling (%)
Andhra Pradesh
Kerala
Goa
Lakshadweep
Himachal Pradesh
Maharashtra
Tamil Nadu
Chandigarh
Haryana
Rajasthan
West Bengal
NCT of Delhi
Arunachal Pradesh
Karnataka
Telangana
Top
Page up
Page down
Bottom



5.ADVANTAGES & DISADVANTAGES

Advantages:

- Increased economic opportunities
- Lower crime rates
- Better health outcomes
- Greater civic engagement
- A more prosperous and just society

Disadvantages:

- Cultural barriers
- Difficulties in reaching remote areas
- Ethical Considerations

6.APPLICATIONS

The project literacy analysis has several valuable applications in the healthcare industry and beyond.

- **Planning and implementing education policies**
- **Monitoring progress**
- **Evaluating progress**
- **Raising awareness**
- **Treatment Decision Support**
- **Allocating resources**
- **Policy Development**
- **Benchmarking and Performance**
- **Research and Public awareness**

7.CONCLUSION:

In conclusion, Empowering the future: A Literacy Rate Analysis for better future project holds significant value and potential for the improvement of society. By leveraging data analytics, exploratory data analysis, the project aims to achieve several important outcomes.

Lastly, we have to create the web integration in the python folder. Downloadthe bixin file and run the index.html in visual studio code.

Overall, Empowering the Future: A Literacy Rate Analysis for Better Future project is a valuable initiative that has the potential to make a real difference in the world. By increasing literacy rates, we can create a more prosperous, just, and peaceful world for everyone.

8.FUTURE SCOPE:

The project, Empowering the future: A Literacy Rate Analysis for better future is vast. And holds great potential in transforming the society. Overall, the future scope of the Empowering the future: A literacy analysis for better future project is dynamic and transformative. As technology continues to evolve and data-driven decision-making becomes increasingly prevalent, the project's applications have the potential to revolutionize around the globe.