

**Data Visualization**

**CA TWO**

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**Master of Science in Data Analytics**

**Introduction**

This report is prepared in a story form so that readers can enjoy reading and can understand its insight. The report is based on ‘Education in India’ according to its province-wise (province is known as State in India), which is in visualization form and little description about it.

**Education in India**

Education in India is provided by [public schools](https://en.wikipedia.org/wiki/State_school) (controlled by government) and [private schools](https://en.wikipedia.org/wiki/Private_schools). Under various articles of the [Indian Constitution](https://en.wikipedia.org/wiki/Indian_Constitution), free and compulsory education is provided as a fundamental right to children between the ages of 6 and 14. The approximate ratio of public schools to private schools in India is 7:5. India's improved education system is often cited as one of the main contributors to its [economic development](https://en.wikipedia.org/wiki/Economic_development_in_India) [1].

**Types of School:**

1. **Government school:** Schools runs by the state and local government as well as the central government.
2. **Government aided private school:** These are usually charitable trust run schools that receive partial funding from the government [1].
3. **Private School:** School run by private organization.

**Scenario**

Education Ministry of India is worry about the overall literacy rate of India. Media people keep on asking them about progress report of India in education system. Pressure has also been made from opposition parties and they put several allegations on them. These opposition parties compare status of education system with other developed countries and on national news channel they keep on telling that the current government has fail to provide a good education to people.

This leads to chaos in Education Ministry department and they feel that they might lose the upcoming election if immediate action has not been taken.

**Dataset**

Education Ministry has hired four data analysts named as Laxman Thakur, Ravjeet Singh Dari, Jamadaguntla Swetha and Satyajit Saha to help them and to discover the insights. Ministry gave them dataset and told them to use whichever tools can be used of their choice.

Dataset is taken from below online link [2].

<https://www.kaggle.com/rajanand/education-in-india>

Dataset is also kept in GitHub link which is given in above ‘**Link’** section.

**Dataset Preparation**

All four data analyst started discussion about the dataset. Initially, the dataset was not organized many blank values, NA values and unwanted columns were present. So, they clean dataset in Python programming language (code is given in **Appendix A** of this report). Dataset is clean and it is found that there are 37 rows and 66 columns.

**Techniques**

Data Analyst used the Python programming languages to discover the insights. The graphs has been plotted in Google colab as they feel that it is very easy to share and anybody can edit it **(colab link is given in ‘Link’ section above)**

**Education Ministry and Data Analyst interaction**

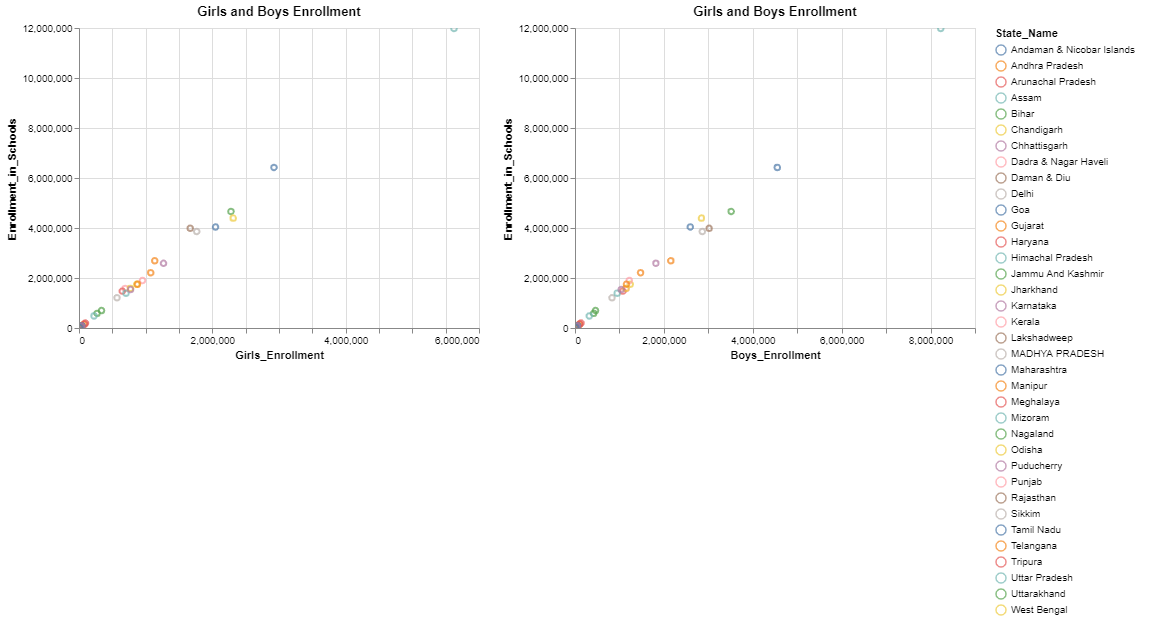
A screenshot of a cell phone

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**Education Ministry:** What is literacy rate for each Indian state?

**Description:** In this pie chart we can see there is literacy percentage for every state of India. This is basically interactive pie chart. Kerala has highest rate of literacy amongst all states with 93.91. Lowest literacy rate we can see for Bihar which is almost 63.82.After Kerala Lakshadweep, Mizoram ,Tripura has high literacy as compared to other states.

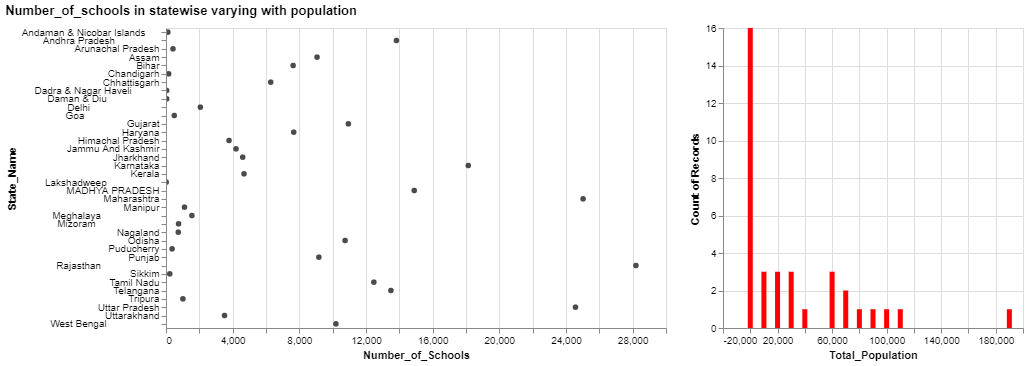
**Data Analyst Advice:** Focus on other states also. Because, if literacy rate grow in other states then the people of other states will also have job opportunities and can live a high standard life.



**Education Ministry:** Are we doing enough for girls. What is the girls enrolment in school? Does the enrollment of girls is greater than boys?

**Description:** The interactive side to side scatter plot shows the comparison of enrollment of girls and boys in each state. The graph shows that enrollment of girls in school is around 30 million which is less than boys whose enrollment is nearly 50 million. It is been observed that most of the states of both girls and boys enrollment is nearly 20 million.

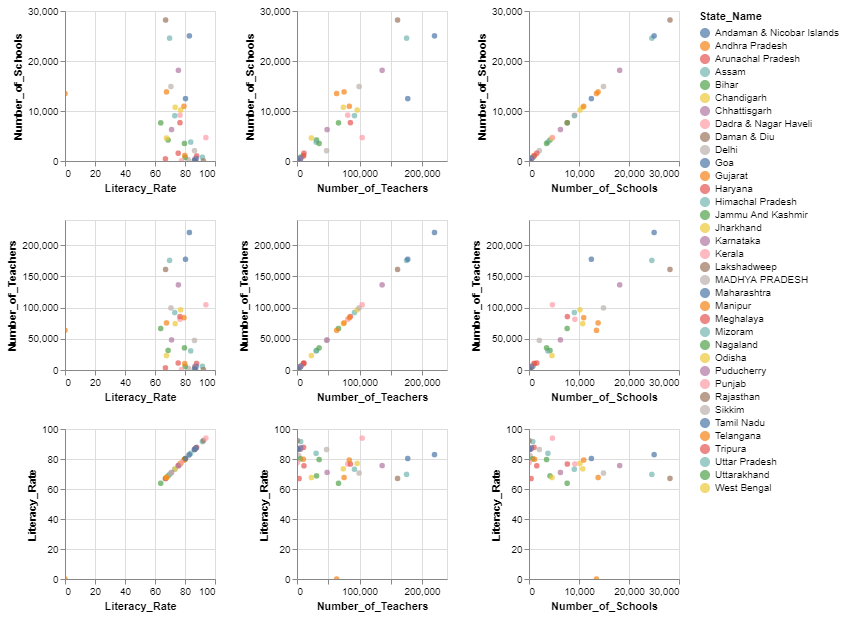
**Data Analyst Advice:** Yes, government is doing enough for girl education but in few states. Promote girl education in every state. And make some concession in school fees for girls.



**Education Ministry:** Does the number school is depended upon population?

**Description:** The side by side scatter plot and histogram shows the of number of school and total population. It described that the number of schools does not depend upon population in states. Some state were population is less has more number of schools. While on the other hand the there are some states whose population is more but number of schools is less accordingly.

**Data Analyst Advice:** The number of schools should be opened as per the number of populations in each state.



**Education Ministry:** Doesimpact of overall literacy rate depend on number of teachers and number of schools?

**Description:** There are 9 scatter plots that gives us relation between no of teachers , no of schools , literacy rate with respect to state of India. Count of teachers increases according to no of school are going to increase with rapid rate. And literacy is going to improve as there are more number of teachers are available in the schools.

**Data Analyst Advice:** All 3 entities are very much essential in order to improve education growth.

A screenshot of a cell phone

Description automatically generated

**Education Ministry:** What is difference of literacy rate between males and females?

**Description:** This histogram shows the difference between males and females literacy ratio. The main conclusion from this graph that male has highest literacy rate than girls in overall. In 100 % literacy rate there are 2 state which consist of only highly qualified mails. In 85 to 95 % literacy rate count of males are 17 against 3 females that show that still we need to motivate females for education in each Indian state. Some of states females literacy is null due to social and public impact.

**Data Analyst Advice:** Motivate females for education. Also, give advertisements for female education in media.

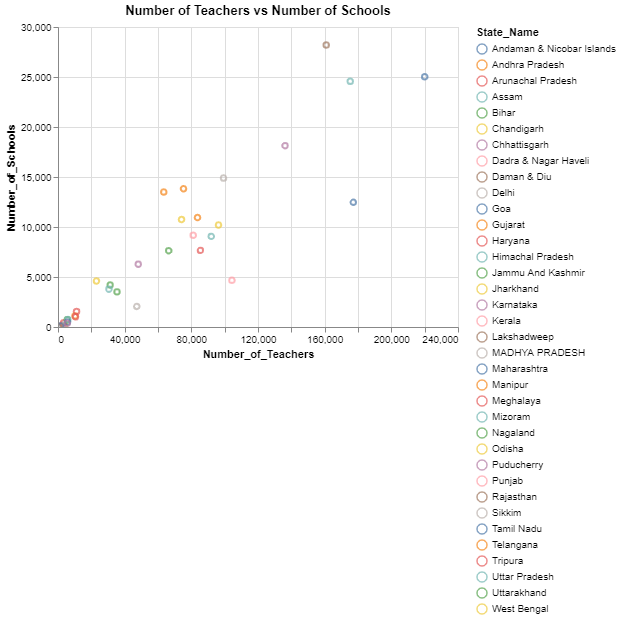
A picture containing electronics, sitting, clock

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**Education Ministry:** Is there any difference in rural and urban enrollment?

**Description:**  The observation in last two rows of pair plot clearly states that there is difference in rural and urban enrollment. There are few states in India were the villages have no schools. Whereas there are some states where villages has good number of schools.

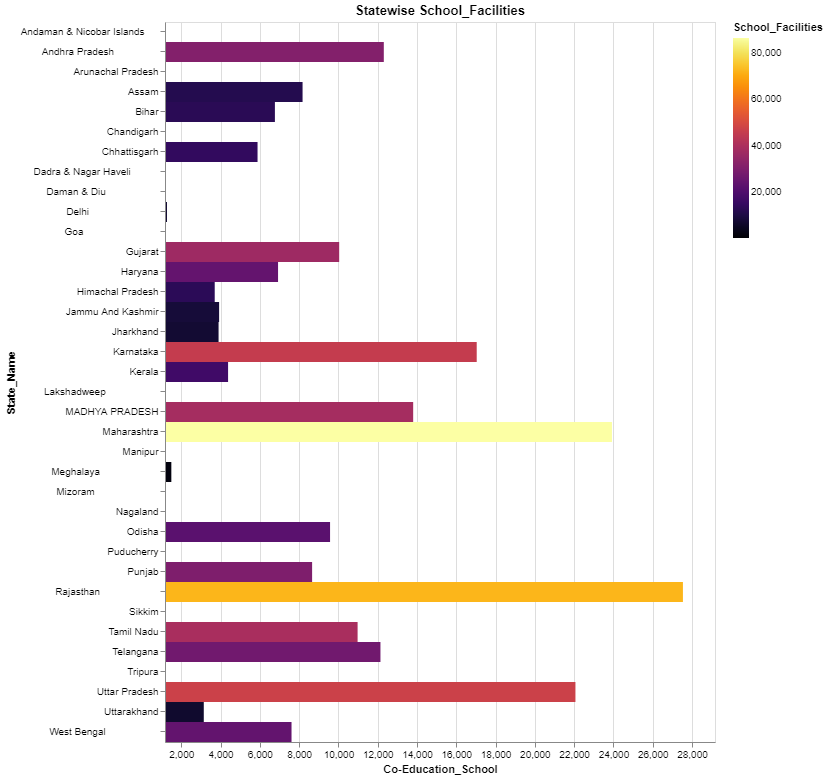
**Data Analyst Advice:** The villages will be prosper if government make more schools. Consequently, government can get more votes from village people.



**Education Ministry:** Does schools have enough number of teachers?

**Description:** From the interactive scatter plot shows that the linear relation between number of schools with number of teachers. As the number of schools increase the number of teachers also increased. Every state has good number of teachers with respect to schools. Maharashtra state has maximum number of teachers.

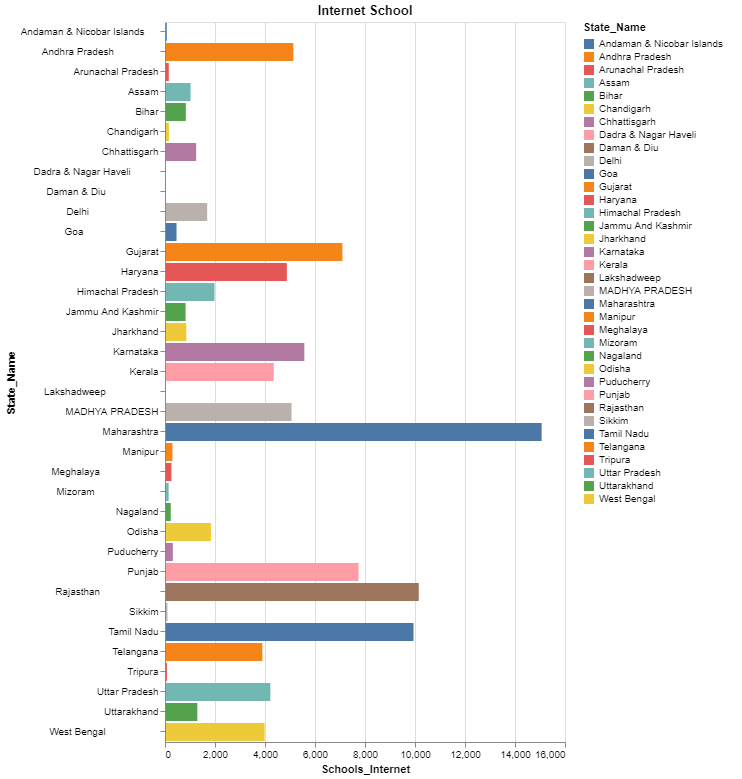
**Data Analyst Advice:**  That’s a good thing regarding the relation between number of schools and teachers. The same scenario should be maintain in future too.



**Education Ministry:** Does schools have enough good facilities?

# Description: The above plot is the Heatmap / histogram which defines the school facilities (such as playground, internet, ICT-lab, medical checkup) by varying ranges of colors. It is been observed that some states do possess good facilities in school. Rajasthan state has maximum number of facilities in school.

**Data Analyst Advice:** Parents will apply for the admission in the school which has more number of facilities. Facilities in school will develop a student as all-rounder. Government should make arrangement of facilities in school of other states.



**Education Ministry:** Do schools have a good number of internet facilities?

**Description:** Only Maharashtra has good number of internet facilities. Rest all the other state does not have good number internet service in their respective schools. All the eastern states like Mizoram, Sikkim, Meghalaya, Tripura and the union territories like Dadra and Nagar Haveli, Lakshadweep, Andaman & Nicobar Islands schools do have internet connection.

**Data Analyst Advice:** Internet is one of the essential facilities in school. Internet is necessary not only for students but also for school staff to work. Give more internet connection to school.

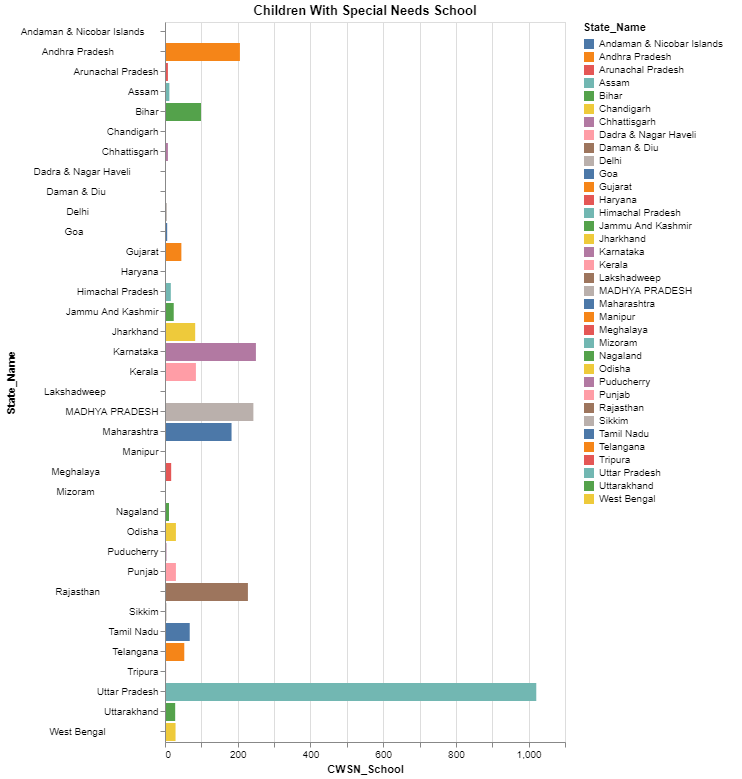
A close up of a logo

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**Education Ministry:** Is position for librarian require?

**Description:** Filled stepped Chart clearly illustrates that there is fluctuation in relation between library and librarian. The maximum number of librarians in a particular state is 7000.

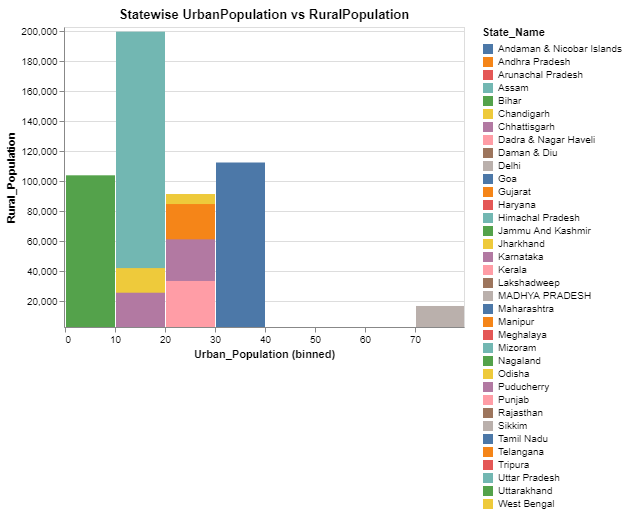
**Data Analyst Advice:** Government should create huge number of vacancies for librarian position. Consequently, it will reduce the unemployment rate.



**Education Ministry:** Which state has more number of CWSN (Children With Special Needs) school?

**Description:** The above bar chart shows that Uttar Pradesh state has maximum number of CWSN school. State like Karnataka, Madhya Pradesh and Rajasthan has almost same number of CWSN schools. There are few states where there are no CWSN schools.

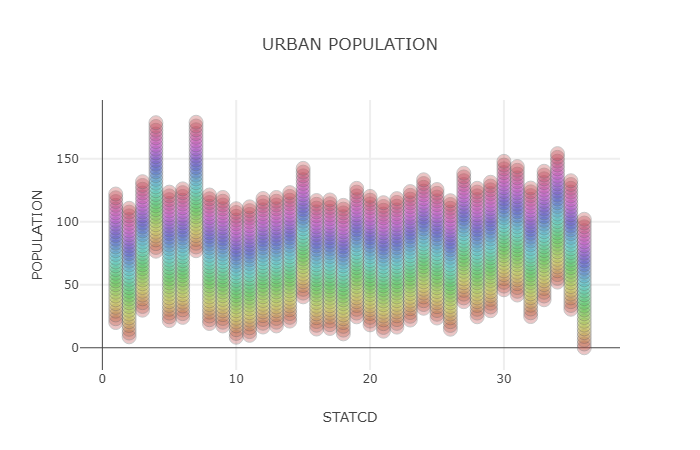
**Data Analyst Advice:** CWSN school should be built on the basis of population of CWSN children. But yes, government should be build CWSN schools in that state where not even a single CWSN school is been built.



**Education Ministry:** Give the comparison of rural and urban population.

**Description:** The above interactive stacked bar chart shows that the rural population is drastically more than urban population. Almost all the states have more rural population.

**Data Analyst Advice:** Focus on rural development instead of urban development. If more schools is been made more development and job opportunities will be available in villages.



**Education Ministry:** State education growth in accordance with urban population

**Description:** The interactive graph shows that each state growth with respect to urban population values. Delhi has seen highest growth in education due to increased population. Lowest growth can observed in Bihar in terms of population.

**Data Analyst Advice:** Education growth in every state should be grow as per population.

A screenshot of a cell phone

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**Education Ministry:** Does population and literacy rate have any relation?

**Description:** From side to side line chart shows the relation of total population and literacy rate. But the above graph clearly states that though there is a huge vary in population among states but literacy rate is almost same.

**Data Analyst Advice:** Government should focus on the states like Bihar where population is more and literacy rate is less.

![A close up of a piece of paper

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generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RDiRXhpZgAATU0AKgAAAAgABAE7AAIAAAAIAAAISodpAAQAAAABAAAIUpydAAEAAAAQAAAQyuocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFJhdmplZXQAAAWQAwACAAAAFAAAEKCQBAACAAAAFAAAELSSkQACAAAAAzgzAACSkgACAAAAAzgzAADqHAAHAAAIDAAACJQAAAAAHOoAAAAIAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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DGj+3dX/6Cl7/4EP8A40Ae00V4t/bur/8AQUvf/Ah/8aP7d1f/AKCl7/4EP/jQB7TRXi39u6v/ANBS9/8AAh/8aP7d1f8A6Cl7/wCBD/40Ae00V4t/bur/APQUvf8AwIf/ABooA//Z)

**Education Ministry:** Can you describe the overall literacy rate in India?

**Description:** 3D plot show the overall literacy in India. Most of the states has literacy rate between 60 – 70 %. Only few states are below 50 %. Female literacy in one state is less than 20.

**Data Analyst Advice:** If India literacy growth increase it will have good impression among other developed countries.

![A close up of a logo

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RDiRXhpZgAATU0AKgAAAAgABAE7AAIAAAAIAAAISodpAAQAAAABAAAIUpydAAEAAAAQAAAQyuocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFJhdmplZXQAAAWQAwACAAAAFAAAEKCQBAACAAAAFAAAELSSkQACAAAAAzgxAACSkgACAAAAAzgxAADqHAAHAAAIDAAACJQAAAAAHOoAAAAIAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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3u2LS9GsNSutOjXCxyPBdyRxyso4k2qqfeyG8wkg7hWy8CXniq21y9hDaxZ63Dp9vbOcrBA1sjsioeAfmaTdjdx1wMUAYd1psOmeG7q400XEt3cpqsMlq91K4jSzaZrYIpbMflOkYUrjG/3FX73QNNj1iHQbe5vJtIa4sna6+3SmXddC489fODbsSmOHcucEy5HJFaPgZLKy1fT9ZlkjN1rmgC+1e6uHyRNviA5b7ikvIuwYH7sDGRXdweH9CTSZLC20nT10+5O+S3jtkEMpOOSoGG6Dn2FAHO+EfD+m3tol/cxSTzWN7PbW8rXEm2SOCeRIS67tsjIowHYE8ZzXQ2HhrStM1Oa/srZo7iXeCTM7Kgdt7hEYlUDMAxCgZIBOav21tBZ2sdtZwxwQRKEjiiQKqKOgAHAFS0AFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABWJ4rsbq90mBrCH7RPaXtvdiAMFMojlVmUFiADgHGSBkDJHWtuigDk7Uatong3xDqkdgV1OZru/t7Bv3pDbf3cbBCdxOxSQpPLEAnrVK28U6zqNxb6VpV9ps+qSJcTyvcaZPbiBIhCPLaF5N4ZmnQhiQNpztPftLmJp7WSKOeS3d1KrNFt3IfUbgRke4I9q5t/Adu8z3n9s6oupyM3makrQiZ0ZFUx4EewLhF6KDlQc55oAy7bx5f6jbQavYwW0elKNPFxDKjNMxuhGcq4YBQgmQ4KndhhxxTZvHupWNjJqt3b2stjcW17NZQRKySqYD8iu5Yht6gnIVdp4+brW2fA+mLdW728t1bWkIt91jEy+TMbcgwlsqWyuF6MM7VznFcV4q8L+E9N8daAuqaoitezXduLO6uYkEME8FwXCcB9rSNgZJwSAuOlAHRyeJdet9SHh+dtOfV5ruGGG7S3cQBHhllLGMybiQLeUY3jOVPHIrofDWqzaxoaXN2iJcRzz204jzsMkMzxOVzzgshIz2NeIQeG7SXQhJZ3t5NqY043XiO4jdTNb3XmQowYKuAwia9ABBJDMTnOa6LTrPw/p6Q2sk1tP4Ij1dwkty6NayN9jU7ifubDN5h7L5nTBxQB7FRXhN7qf2X+yrPV7G8m1W80m0Xw9cugJgmV5WHLHeHIEQYgHjaHwDyqeKYJmvNU0y1nt9djutTlubpjGZZLUxz/AGdSquXwG+yBQwA3fdzzQB7rTJoYriPZPGkqZDbXUEZByDg+hAP4V5N4F8WaPBqFwPDek3nky21panT4Fi3yXgWZ3Ynf5e/ylVnYvnhQ3zcV2knj7S1ht54be8nt3to7u4mjjUCyidiitKGYEfMrghQxGxsjigDW1Hw7o2ruH1TSrO7kH3ZJoFZl+jEZH4VQPg+3h50vVNW04/8ATK8aZR9Em3qPwApR4y0/+12s5IbmKATS2637qggkljQvJGDu3ZVVc5KgfI2CcVNoPie316SSOOzvLKVYY7lI7tFVpIZN2yQbWbg7W4OGGOQMigClc2XirTraWWyvrPWPLQsltPa+TNKQPu+ar7AT05QCqbTa2xWTxB4XklA5A024inRB/tbyjsR7KR7V2dFAHH/8JLoUGFub+50c9ANQjktl+g85Qp/Cti3lknhWazvLe6hb7rAZDf8AAlOP0rYIBGCMisS48HeHrmZpzpNvBcN1uLVfIlP/AG0j2t+tAEkt5JbKDc25wTgeU4bJ+hwT+AqI3YnP+ku1pF/dcFGb6seB+H51nWXge40xS1j4p1lpz1a9eO5U+3zqWA9lYe+TzVkw+LLTp/Y+qL/20s2H/o0E/l+FAGrCIhEot9nljps6U540lXbIiuPRhmufk1N4W3ar4X1K1Pee3iW5B+nks0n5qKhTxdoL3q2NprRS+YZFpcNscf7yygMvXocE84zigDee0tokLgmBVGSUkKAfhnFZ1/qH2Cze5uNQ+y2vCiWeMFnY9FRQAST0A5J7A1nXuq6nPqH2PQLe11q+ibE2+RorazO0n53AbLZx8oBbBzhRzWr4e0CRPK1XxCDc63hgXdgyW4zjbCo4RSO/3iMbicUAY1pZ+J9buIY7uzXSdDlZjL5NyyXsw/hL8HywR1AbfyOVwRXZ2NhaaZZR2mn28dtbxDCRRKFVfwqxXnHxCk1RvEOlSPo95cWFnqFk1pJDLAEeZphuLBpFbIX5F4x87knkYAOt8ZPfx+B9bfRxIb5bCY2/lkh9+w4247+nvXmVvP4b/tiO01iHQm8MQQTsb2whEdpPdskXlqcs26ZUE2G3EksOjcVHZ+R/wj8X9mf6z+x4P+Eo8n7/AJ32iHzvOxz5mz7XnPOPbFaK/wBg/bB9s+w/8IR/a832fft+xZ+xxYx/Bs837Rjtv6c4oApW1pGLi0m163hHjGUaN9leVB9pdAIhPtPUjPniTH8P3uMVUk0bTv7AvtM0PTrX+1PsGqjV7S3gXdkSZj3oB97dgxZHT7vFWxn+z7T+2c/27/Zmm/2H9p/1+/zW3bM87/ueZjnbjdxWtpV5p1p4ygkaeCLXI9R1OTWGZgJVsQZTEZe4jA+zbM8Y6d6AM64sPCtxqMMtta6XL4MttUtjI4jQ2kTG1mDEH7qr5n2UN2z15zW/4Z1LwxpFjY3OoRW6Xzyzx2l19lLyRWTXLrbbpApMcZjaMAsQDmrHiTxXfHSHGiw3ch1GHzbCVUMDuFYB4lDISHKBnUlSSDwMgZqeG9Fk1i4+1zyzXZ2Pa6hcXlm0Ud5A5dhCm7Dt5RIUOw5575FAGV9kttfsPLsbjSrPXrnVWuJtOgt4YZCI1bKM21zvCtvErA8sMYyMeg+FNOudJ8Pw2Nza2tlFAAltaWsjSC3iAAVC7cu3XJwOvfGTe07S7bTLWGKBS7RRLF58vzSuqjA3N1NXKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKAOW8ULqDeJ/DT2n9lCOC8eQLeX7QSzsYJUKRoI23EK5fr/CRgdayJfBVzM99sttH0A3dqYobewlZ0ubgSCVJZB5acrsPQEkM3PAqDxtp3iHV/EU15o+lRTrodvHJZvcTvCzXHmLM/lARsJMrFHH1X77rnk1Sg0ee4s/DetauviOR21e5kuVaa882CJluVi/cocoPmjXIUcHngmgDf8A+Ea13+0v+Eg2ad/a32/7R9j+0v5HlfZ/I2eb5e7d/HnZ/s4/irG1bwRrlhoFxBZanpMFtfaYtrrN1fLJiFFaaSSSIDGc+e/3mGAo9Tjb8GtfR69qcF0NRuojmQX12LqJSTI2IxFN8gIH8UXykDoOK2/Enh1PEtlBazX95ZxwzrORbeWRKV5VXEiMGUHBxjqB6UAeU2UmvavBE+o29nbaFBq6faIh5guxcajEAQM/KEQ6hnn5vlwcc1e0LxDr2kxR67rkOnTm80IrpiWhdeIHQL5u7u5nBO3hQvfNd9/whts+pJeXGo38/wC9iuLiFzEI7qeIARyuFQHcNqfdKr8i5HFRJ4B0sJcxT3F5cW0tvNawW8kihbSKVgzrEVUMOVXBYsRtABAoAonxLrqakPD7Ppx1Zr5bdbwWz+QIjbtPvMXmbs/IyY3+jZ7VSk8eatJpd1fW0FlGNG037fqcciO/nbZZo2SIhht/49pSCwbqox1NP8X+GvDmmeELy98VahdXAS6S7e9uFgeV5goiRAjR+UQVO0KU28knnLV53c+DNAttG0m9XXNIvpYLVo10VGiunvI2uWkEEUmSQwLFNyLyc/dBwAD1WDxRqUmvwl0tf7JuNUm0uNBG3nq8cbkyF920gtEy7doIBBz1FddXjY0O2i+JLXllOf8AhJF1u4kFmUi+SBrd8S/d37CCo5bZvY8biaitDYf2Gv8AZG37F/Z+nf8ACQ+X/f8AtSef53/TTy/P8zPzbevagD2mivDo/E3g03IGqug8HR3VzJaQS2cgi/eRxCIpHsyV3rebcDAKnGMCol8Q6fFZ6TN4gu8+IprPSZNLnlRmdVBXzzvAwnzCUSZIyBg8YoA92qtJptjNHNHNZW8iTtvmVolIkbAGWGOTgAZPpVRfEmlNrp0cXLfbQxj2+S+wuE3lPMxsL7Pm2Z3Y5xiq1v400C6s7q6hvm8m1RZHZoJF3I5IR0BUGRWIIUpkMeBmgDWsrG002zjtNOtYbS2jGEhgjCInOeFHAqDWptOt9CvZtcaNdOjgdroyjKeWBlsjuMdqoyeMtDi02K+e5mMcsjxLGtpM0wdMlwYgm9doBJyowOtbME8Vzbxz28iywyoHjdDkMpGQQfQigDxuxfwxcXEN7qj6XD4WvDdzJp8ckbQWc3l26wqwU7VmZFnfaOjMQMsMmaDzd1h/b/8AyNuNG+w+d/r9n7r7Rs743faPMx2+9xiuh8V3t3Hrmrzx311BNpVvYyWNvFOyJK0szq25AcSbyojwwOMcYJzXoFAHjUm77Jff2Hn/AISP7Bq39r/Z/wDX7t/7vfjndnHlZ/hzt4zVp/7B+2N/Z32H/hCP7Ttvtfl7fsefs027P8O3zPsu7tu685r1uigDnfAmf+EPt8bvI8+5+ybv+fbz5PIx7eV5ePbFc14s8OXljb6wLDVLgprrPjT7bTFlluJWTaUaU5wmB1O3aM/N0x6PRQBzukaBqJt7f/hKtSi1ZoFhaJBaLGElTB81jliXz3BA46d66KiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACg5xx1oooA4y48GXQ+IVnr1lLGbaOZZ50ubmSWQt5dxGRGWB2KPPBCAheDgL1NEeBNVXR9ctRNZGTV9LuLPl22wyST3Egx8vKgXGOx+Qcc8eg0UAcdL4Pvpv3BngWH+2pb/zg7GTy3hdQMYxu3vjrjaM5zxVR/BOqy22khpLJJNOstPhKrI22R4LmOVxnbwuIgFOM5Y5Axz3lFAHJWnhfULTxhLre+1dZJ7p/J8xhtWSO3RDnb1zbc+m84Jxzs+GNLl0PwlpGk3EiyS2NlDbu6Z2syIFJGe2RxWpRQBUudJ068vre8vNPtbi6tTmCeWFWeH/AHWIyv4VboooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooA//Z)

**Education Ministry:** Which branch students are more in India?

**Description:** The 3D plot shows that science students are more as compared with other branches like commerce and arts. India produces more science students.

**Data Analyst Advice:** Government should create more vacancies in other stream so that in future students can apply for commerce and arts filed. Also, the competition in Science field will be reduce.

**Overview of Development Process**

Education Ministry asked data analyst about the time period taken for whole process. They replied overall it took three weeks for this visualization project. Though the task was divided equally among them but maximum time was taken for data preparation it took almost one week for data preparation.

**Impact of Visualization**

Education Ministry has thoroughly follow Data Analyst advice and take the necessary steps on it. Eventually, the election held and current government has won and remain in power.

**Conclusion**

Visualization is more clear than text and it take less time to get the illustrations from it.

**Reference**

[1] Wikipedia Contributors (2019). Education in India. [online] Wikipedia. Available at: <https://en.wikipedia.org/wiki/Education_in_India>.

[2] Rajanand Ilangovan / இராஜ்ஆனந்த் இளங்கோவன் (2011). Education in India. [online] Kaggle.com. Available at: https://www.kaggle.com/rajanand/education-in-india [Accessed 13 July. 2019].

**Appendix A (Data Preparation Code)**

# To know current directory

pwd

# To change directory

import os

os.chdir('C:\\Users\\Ravjeet\\Desktop\\DBS\\Data Visualisation\\Education-in-India')

# To once again check the directory

pwd

# To import pandas

import pandas as pd

# To read csv file

ed = pd.read\_csv('2015\_16\_Statewise\_Secondary.csv')

# To print csv file

print (ed)

# To print first 6 columns

print (ed.head(6))

# To drop multiple columns

# axis =1, means columns will get deleted

# inplace = True, means changes are effected in same data frame

ed.drop(['sc\_population','st\_population','blkcd','clusters','sch\_1','sch\_2','sch\_3','sch\_4','sch\_5','sch\_6','sch\_7'],

axis=1, inplace=True)

ed.drop(['sch\_r\_1','sch\_r\_2','sch\_r\_3','sch\_r\_4','sch\_r\_5','sch\_r\_6','sch\_r\_7'], axis=1, inplace = True)

ed.drop(['sch\_u\_1','sch\_u\_2','sch\_u\_3','sch\_u\_4','sch\_u\_5','sch\_u\_6','sch\_u\_7'], axis =1, inplace = True)

ed.drop(['enr\_1','enr\_2','enr\_3','enr\_4','enr\_5','enr\_6','enr\_7'], axis=1, inplace = True)

ed.drop(['enr\_r\_1','enr\_r\_2','enr\_r\_3','enr\_r\_4','enr\_r\_5','enr\_r\_6','enr\_r\_7'], axis =1, inplace = True)

ed.drop(['tch\_1','tch\_2','tch\_3','tch\_4','tch\_5','tch\_6','tch\_7'], axis=1, inplace= True)

ed.drop(['tch\_r\_1','tch\_r\_2','tch\_r\_3','tch\_r\_4','tch\_r\_5','tch\_r\_6','tch\_r\_7'], axis=1, inplace =True)

ed.drop(['tch\_u\_1','tch\_u\_2','tch\_u\_3','tch\_u\_4','tch\_u\_5','tch\_u\_6','tch\_u\_7'], axis=1, inplace = True)

ed.drop(['sing\_cls\_sch\_1','sing\_cls\_sch\_2','sing\_cls\_sch\_3','sing\_cls\_sch\_4','sing\_cls\_sch\_5','sing\_cls\_sch\_6','sing\_cls\_sch\_7'],axis=1, inplace = True)

ed.drop(['sing\_tch\_sch\_1','sing\_tch\_sch\_2','sing\_tch\_sch\_3','sing\_tch\_sch\_4','sing\_tch\_sch\_5','sing\_tch\_sch\_6','sing\_tch\_sch\_7'], axis=1, inplace=True)

ed.drop(['bldg\_1','bldg\_2','bldg\_3','bldg\_4','bldg\_5','bldg\_6','bldg\_7','bldg\_all'], axis =1, inplace = True)

ed.drop(['girls\_toilet\_1','girls\_toilet\_2','girls\_toilet\_3','girls\_toilet\_4','girls\_toilet\_5','girls\_toilet\_6','girls\_toilet\_7'], axis=1, inplace = True)

ed.drop(['boys\_toilet\_1','boys\_toilet\_2','boys\_toilet\_3','boys\_toilet\_4','boys\_toilet\_5','boys\_toilet\_6','boys\_toilet\_7'], axis=1, inplace = True)

ed.drop(['gsch\_1','gsch\_2','gsch\_3','gsch\_4','gsch\_5','gsch\_6','gsch\_7'], axis =1 , inplace = True)

ed.drop(['bsch\_1','bsch\_2','bsch\_3','bsch\_4','bsch\_5','bsch\_6','bsch\_7'], axis =1 , inplace = True)

# To view column names

ed.columns

# To change columns name

ed.rename(columns={'ac\_year':'Academic\_Year','statname':'State\_Name','area\_sqkm':'Area\_SqKm','tot\_population':'Total\_Population'}, inplace=True)

ed.rename(columns={'urban\_population':'Urban\_Population','grwoth\_rate':'Growth\_Rate','sexratio':'Sex\_Ratio','literacy\_rate':'Literacy\_Rate'}, inplace = True)

ed.rename(columns={'male\_literacy\_rate':'Male\_Literacy','female\_literacy\_rate':'Female\_Literacy','distcd':'Number\_of\_Districts'}, inplace=True)

ed.rename(columns={'villages':'Villages','schools':'Number\_of\_Schools','enr\_all':'Enrollment\_in\_Schools','enr\_r\_all':'Enrollment\_Rural\_Schools'}, inplace=True)

ed.rename(columns={'enr\_u\_all':'Enrollment\_Urban\_Schools','tch\_all':'Number\_of\_Teachers','tch\_r\_all':'Teachers\_Rural\_Schools'}, inplace=True)

ed.rename(columns={'statcd':'State\_Code', 'library\_all' : 'Library','librarian\_all' :'Librarian','cwsn\_sch\_all':'CWSN\_School','lab\_asst\_all' : 'Lab\_Assistant'}, inplace = True)

ed.rename(columns={'tch\_u\_all':'Teachers\_Urban\_Schools','sing\_cls\_sch\_all':'Schools\_Single\_Classroom','sing\_tch\_sch\_all':'Single\_Teacher\_School'}, inplace=True)

ed.rename(columns={'hostel\_boys\_all':'Boys\_Hostel','hostel\_girls\_all':'Girls\_Hostel','internet\_all':'Schools\_Internet','ict\_lab\_all':'Schools\_ICT\_Lab'}, inplace = True)

ed.rename(columns={'pground\_all':'Playground','medchk\_all':'Medical\_Checkup','smdc\_all':'SMDC','pta\_all':'PTA','cls\_all':'Classrooms','tchf\_all':'Female\_Teachers'}, inplace=True)

ed.rename(columns={'enrg\_all':'Girls\_Enrollment','schlabphy':'Phyiscs\_Lab','schlabchem':'Chemistry\_Lab','schlabbio':'Biology\_Lab','schlabcomputer':'Computer\_Lab',

'schlabmath':'Maths\_Lab','schlablang':'Language\_Lab'}, inplace=True)

ed.rename(columns={'schlabgeo':'Geography\_Lab','schlabpsyc':'Psychology\_Lab','schlabhsci':'Social\_Science\_Lab'},inplace=True)

# To sum the number of professional female teachers.

ed['Female\_Professional\_Teacher'] = ed['tchbtt\_f'] + ed['tchbed\_f'] + ed['tchmed\_f'] + ed['tchoth\_f'] + ed['tchse\_f'] + ed['tchnr\_f']

# To drop unwanted professional female teachers columns

ed.drop(columns=['tchbtt\_f','tchbed\_f','tchmed\_f','tchoth\_f','tchse\_f','tchnr\_f'], axis = 1, inplace = True)

# To sum the number of professional male teachers

ed['Male\_Professional\_Teacher'] = ed['tchbtt\_m']+ed['tchbed\_m']+ed['tchmed\_m']+ed['tchoth\_m']+ed['tchse\_m']+ed['tchnr\_m']

# To drop unwanted professional male teacher columns

ed.drop(columns=['tchbtt\_m','tchbed\_m','tchmed\_m','tchoth\_m','tchse\_m','tchnr\_m'], axis =1, inplace = True)

# To sum the number of male regular teacher columns

ed['Male\_Regular\_Teacher']=ed['tchug\_r\_m']+ed['tchgrad\_r\_m']+ed['tchpg\_r\_m']+ed['tchphd\_r\_m']+ed['tchpd\_r\_m']+ed['tchnr\_r\_m']

# To drop unwanted male regular teacher columns

ed.drop(columns=['tchug\_r\_m','tchug\_r\_m','tchpg\_r\_m','tchphd\_r\_m','tchpd\_r\_m','tchnr\_r\_m'], axis =1, inplace = True)

# To sum the number of female regular teacher columns

ed['Female\_Regular\_Teacher']=ed['tchug\_r\_f']+ed['tchgrad\_r\_f']+ed['tchpg\_r\_f']+ed['tchphd\_r\_f']+ed['tchpd\_r\_f']+ed['tchnr\_r\_f']

# To drop unwanted female regular teacher columns

ed.drop(columns=['tchug\_r\_f','tchgrad\_r\_f','tchpg\_r\_f','tchphd\_r\_f','tchpd\_r\_f','tchnr\_r\_f'], axis=1, inplace = True)

# To drop unwanted regular teacher columns

ed.drop(columns=['tchug\_r\_nr','tchgrad\_r\_nr','tchpg\_r\_nr','tchphd\_r\_nr','tchpd\_r\_nr','tchnr\_r\_nr'], axis =1, inplace = True)

# To sum the number of male contract teacher columns

ed['Male\_Contract\_Teacher']=ed['tchug\_p\_m']+ed['tchgrad\_p\_m']+ed['tchpg\_p\_m']+ed['tchphd\_p\_m']+ed['tchpd\_p\_m']+ed['tchnr\_p\_m']

# To drop unwanted male contract teacher columns

ed.drop(columns=['tchug\_p\_m','tchgrad\_p\_m','tchpg\_p\_m','tchphd\_p\_m','tchpd\_p\_m','tchnr\_p\_m'], axis =1, inplace = True)

# To sum the number of female contract teacher columns

ed['Feamle\_Contract\_Teacher']=ed['tchug\_p\_f']+ed['tchgrad\_p\_f']+ed['tchpg\_p\_f']+ed['tchphd\_p\_f']+ed['tchpd\_p\_f']+ed['tchnr\_p\_f']

# To drop unwanted female contract teacher columns

ed.drop(columns=['tchug\_p\_f','tchgrad\_p\_f','tchpg\_p\_f','tchphd\_p\_f','tchpd\_p\_f','tchnr\_p\_f'], axis=1, inplace = True)

# To sum the number of boys enrollment columns

ed['Boys\_Enrollment']=ed['enrc8\_b']+ed['enrc9\_b']+ed['enrc10\_b']+ed['enrc11\_b']+ed['enrc12\_b']

# To drop the unwanted boys enrollment columns

ed.drop(columns=['enrc8\_b','enrc9\_b','enrc10\_b','enrc11\_b','enrc12\_b'], axis =1, inplace = True)

# To sum the number of boys repeater columns

ed['Boys\_Repeaters']=ed['repc8\_b']+ed['repc9\_b']+ed['repc10\_b']+ed['repc11\_b']+ed['repc12\_b']

# To drop unwanted boys repeater columns

ed.drop(columns=['repc8\_b','repc9\_b','repc10\_b','repc11\_b','repc12\_b'], axis =1, inplace = True)

# To sum the number of girls repeater columns

ed['Girls\_Repeaters']=ed['repc8\_g']+ed['repc9\_g']+ed['repc10\_g']+ed['repc11\_g']+ed['repc12\_g']

# To drop unwanted girls repeater columns

ed.drop(columns=['repc8\_g','repc9\_g','repc10\_g','repc11\_g','repc12\_g'], axis=1, inplace= True)

# To sum cwsn boys columns

ed['Boys\_CWSN']=ed['cwsnc8\_b']+ed['cwsnc9\_b']+ed['cwsnc10\_b']+ed['cwsnc11\_b']+ed['cwsnc12\_b']

# To sum cwsn girls columns

ed['Girls\_CWSN']=ed['cwsnc8\_g']+ed['cwsnc9\_g']+ed['cwsnc10\_g']+ed['cwsnc11\_g']+ed['cwsnc12\_g']

# To drop unwanted cwsn boys columns

ed.drop(columns=['cwsnc8\_b','cwsnc9\_b','cwsnc10\_b','cwsnc11\_b','cwsnc12\_b'], axis = 1, inplace = True)

# To drop unwanted cwsn girls columns

ed.drop(columns=['cwsnc8\_g','cwsnc9\_g','cwsnc10\_g','cwsnc11\_g','cwsnc12\_g'], axis =1, inplace = True)

# To sum Arts students

ed['Arts\_Students']=ed['arts\_c11\_b']+ed['arts\_c11\_g']+ed['arts\_c12\_b']+ed['arts\_c12\_g']

# To sum Science students

ed['Science\_Students']=ed['sci\_c11\_b']+ed['sci\_c11\_g']+ed['sci\_c12\_b']+ed['sci\_c12\_g']

# To sum Commerce students

ed['Commerce\_Students']=ed['com\_c11\_b']+ed['com\_c11\_g']+ed['com\_c12\_b']+ed['com\_c12\_g']

# To sum Vocational students

ed['Vocational\_Students']=ed['voc\_c11\_b']+ed['voc\_c11\_g']+ed['voc\_c12\_b']+ed['voc\_c12\_g']

# To drop unwanted Arts students columns

ed.drop(columns=['arts\_c11\_b','arts\_c11\_g','arts\_c12\_b','arts\_c12\_g'], axis =1, inplace = True)

# To drop unwanted Science students columns

ed.drop(columns=['sci\_c11\_b','sci\_c11\_g','sci\_c12\_b','sci\_c12\_g'], axis=1, inplace = True)

# To drop unwanted Commerce students columns

ed.drop(columns=['com\_c11\_b','com\_c11\_g','com\_c12\_b','com\_c12\_g'], axis =1 , inplace = True)

# To drop unwanted Vocational students columns

ed.drop(columns=['voc\_c11\_b','voc\_c11\_g','voc\_c12\_b','voc\_c12\_g'], axis = 1, inplace = True)

# To sum Other students

ed['Other\_Students']=ed['oth\_c11\_b']+ed['oth\_c11\_g']+ed['oth\_c12\_b']+ed['oth\_c12\_g']

# To save file

ed.to\_csv('school5.csv')

# To fill blank spaces

ed1 = ed.fillna(0)

# To again save it

ed1.to\_csv('school\_state'.csv)