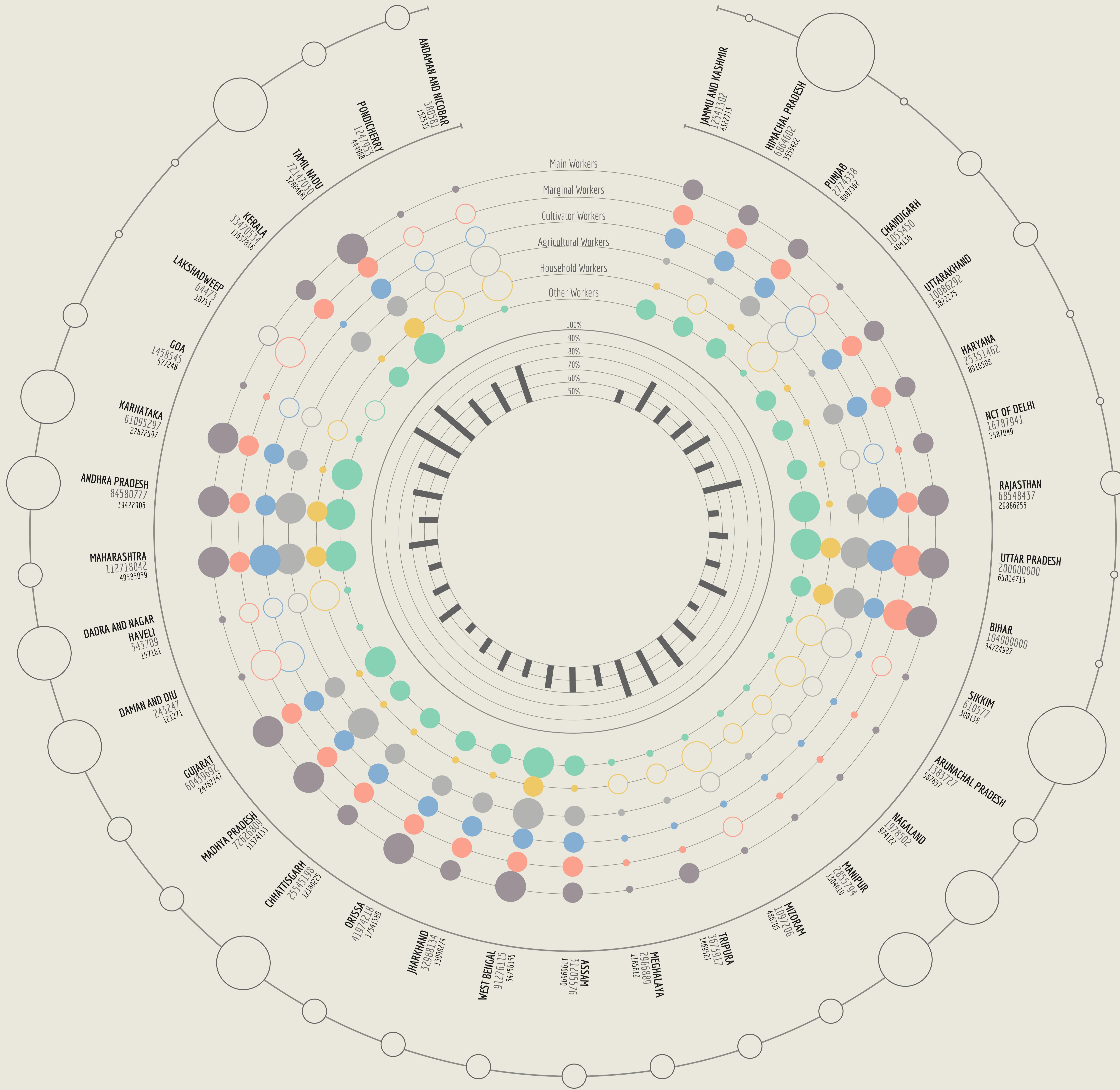


# Does education matter?

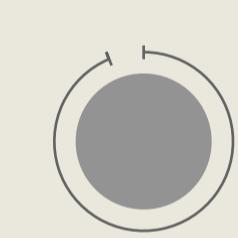
A data exploration to analyze the relation between number of workers in different sectors with education level of the state; and its effect on the change in work participation rate

Source : <https://censusindia.gov.in/2011-Common/CensusData2011.html>

Designed by : Isha Mhatre



## How to read this data visualization



This visualization focuses on the effect of education on the type of workers in all the states and union territories of India; and if it plays a role in work participation rate of the area based on the 2011 census.

### TYPE OF WORKERS INDICATOR

The center of this visualization consists of the types of workers under each state or union territory according to census 2011.

#### MAIN WORKERS

Workers who worked for more than 6 months (180 days) in the reference period are termed as Main Workers.

#### MARGINAL WORKERS

Workers who worked for less than six months (180 days) in the reference period are termed as Marginal Workers.

#### CULTIVATOR WORKERS

A person engaged in cultivation of land owned/held from Government or held from private persons or institutions for payment in money, kind or share. Cultivation includes effective supervision or direction in cultivation.

#### AGRICULTURAL WORKERS

A person who works on another person's land for wages in money or kind or share is regarded as an agricultural labourer.

#### HOUSEHOLD WORKERS

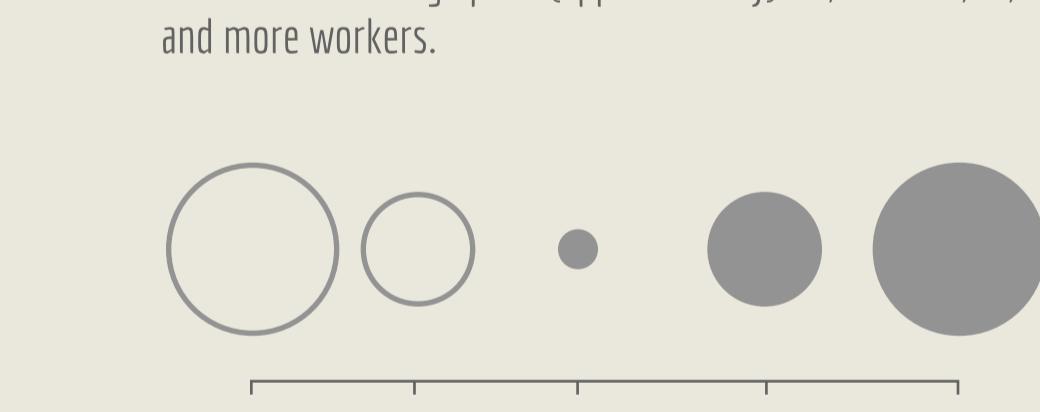
Workers who are engaged in household activities and is paid a wage or salary according to the share of work.

#### OTHER WORKERS

Workers other than cultivators, agricultural labourers or workers in Household Industry, such as: government servants, municipal employees, teachers, factory workers, plantation workers, those engaged in trade, commerce, business, transport, banking, mining, construction, political or social work, priests, entertainment artists.

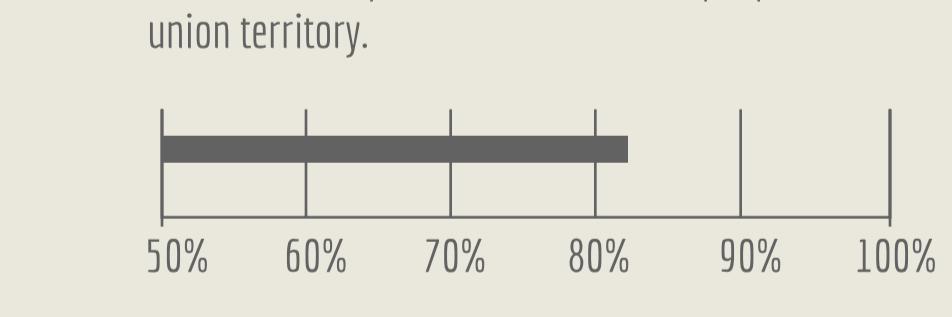
### WORKER INDICATOR SCORE

The indicators range from (approximately) -1,000 to 1,00,00,000 and more workers.



### LITERATE-EDUCATION PERCENTAGE

Total number of literate and educated people in the state or union territory.



### WORK PARTICIPATION RATE

The size of the circle indicates the work participation rate (WPR) in that state or union territory.

Work participation rate (WPR) is the Total workers(male+female)/Total population\*100

50% 50%  
40% 40%

### STATE / POPULATION - WORKERS REPRESENTATION

STATE / UNION TERRITORY NAME  
Total population  
Total workers

## Does Education really matter?

This project focused on bringing together a huge amount of data, understanding it, creating a narrative around and then presenting it in the form of an information/data visualization. The data set taken was of the 2011 India Census. This project was especially challenging, since working with a huge data requires a good articulation and organization skill.

## Understanding the dataset

The data set seemed to be overwhelming at first, with endless rows and columns, but spending time with it and going through secondary sources helped to get a good context of the data. The Govt. of India census website had meta data that explained the terms, which gave a clearer idea about the data set.

## Data cleaning

Data cleaning was an important step that really helped in sorting out the unnecessary data from the data set. There were some attributes that were unnecessary and since the focus of this information visualization was only on the education and employment in all the states, the other data was completely ruled out.

## Choice of visualization

To use appropriate visual encodings was the most challenging part of this project. To show so much data in such a way that the viewer does not get intimidated, but is still able to grasp all the information at a glance, was the ultimate goal.