# Educational Disparity Among the Disabled Population in India (Census 2011)

# **Data Analysis Report**

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Source: https://censusindia.gov.in/

# 1. Project Overview

This project focuses on analyzing the 2011 Census data of India, specifically examining the disabled population by type of disability, education level, and gender across rural and urban areas. The analysis aims to identify key demographic disparities, assess the impact of literacy on disability prevalence, and provide insights to inform policy development for inclusion, accessibility, and education reforms.

#### 2. Tools Used

- Python (pandas, seaborn, matplotlib)
- Jupyter Notebook
- MySQL
- Power BI (for visualization)

# 3. Project Objectives

- Clean and organize unstructured government census data
- Analyze patterns in disability types across gender and education levels
- Explore rural vs. urban disparities in education among the disabled population
- Visualize insights to support inclusive policy-making

## 4. Key Insights

- Majority of the disabled population are males, especially in rural areas
- Illiteracy rates are high among individuals with disabilities, especially in hearing and speech impairments
- Urban areas show better literacy levels among disabled individuals than rural counterparts
- Movement, in-seeing and in-hearing disabilities are the most prevalent categories

- Graduate and above segment among disabled individuals remains low, indicating educational dropouts

# 5. Data Source & Preparation

The dataset was sourced from the official Indian Census (2011) records in Excel format. The data was cleaned and transformed using Python by dropping unwanted headers, merging rows, handling data types, renaming columns for clarity and exporting structured CSV for further analysis.

# 6. Visual Analysis & Exploration

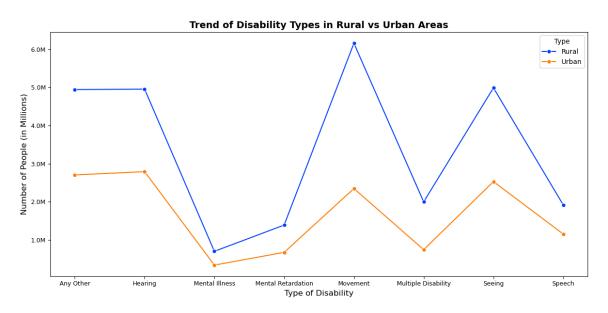
The cleaned dataset was analyzed using bar plots and categorical visualizations. Rural vs. Urban splits, gender-wise breakdowns, and education distribution were used to examine the intersectionality of disability and social determinants.

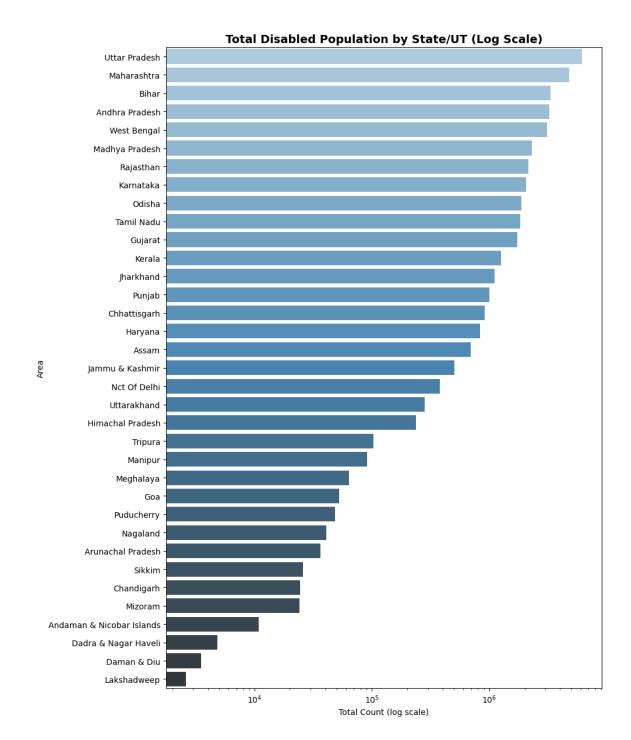
#### 7. Conclusion

The analysis highlights significant gaps in educational attainment among the disabled population, particularly in rural India. Disabilities such as movement, seeing and hearing are the most prevalent, and males are disproportionately affected. Urban areas fare better in terms of literacy as well as illiteracy rates, but national efforts are needed to bridge the gap and ensure inclusivity. These insights can serve as a foundational step toward designing better support systems, including education access, awareness programs, and region-specific policy interventions.

#### 8. Power BI Report: Dashboard

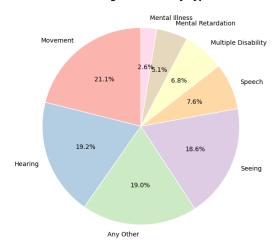
#### 9. Visuals

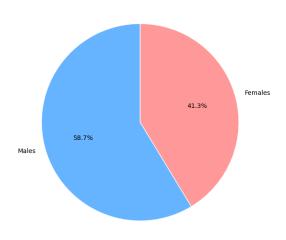




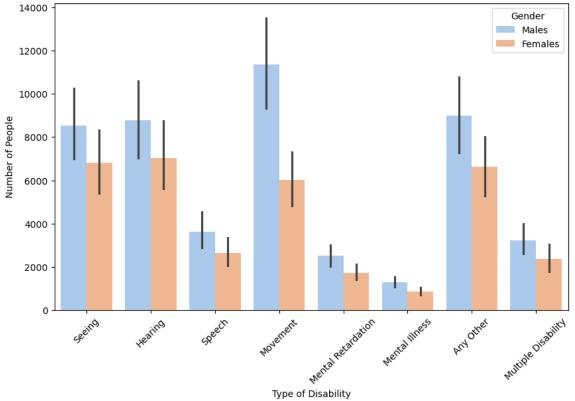
### Percentage of Disability Types

# **Gender Distribution of Disabled Population**





# **Distribution of Gender**



# Distribution of Disabilities by Education Levels

