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# Slum Dynamics In Karnataka: A Study of Socio-Economic Disparities and Spatial Distribution

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## Abstract

*This study examines the spatial distribution and socio-demographic characteristics of slum settlements across Karnataka, highlighting disparities and challenges faced by slum dwellers. Using data from the Karnataka State Slum Clearance Board, the research explores district-wise variations in slum populations, focusing on factors such as gender, caste composition, and the number of notified slums. The analysis reveals that urban districts like Bangalore Urban and Bellary have high concentrations of slum populations, while rural districts like Kodagu and Udupi show relatively minimal slum presence. Socio-demographic patterns indicate significant representation of Scheduled Castes and Scheduled Tribes, reflecting historical and systemic inequalities. Advanced statistical techniques and geospatial tools were employed to map and analyze slum distributions, providing insights into the spatial disparities across the state. The findings underscore the need for targeted policy interventions to address housing, sanitation, and infrastructure challenges. Recommendations include enhancing affordable housing programs, strengthening governance structures, and integrating technology for better planning and monitoring. This study provides a comprehensive framework for policymakers to address the socio-economic vulnerabilities of slum dwellers and promote inclusive urban development in Karnataka.*

**Keywords:** Slums; Karnataka; Spatial Distribution; SocioDemographics; Urban Development; GIS Analysis; Poverty; Urban Policy

## 1 Introduction

Urbanization in India has led to rapid growth in cities and towns, accompanied by the expansion of slum settlements characterized by inadequate housing, poor sanitation, and limited access to essential services. These slums often represent the stark contrast between urban growth and socio-economic disparity. Karnataka, one of the most urbanized

states in southern India, faces a significant challenge in managing its growing urban population, with many people residing in slum conditions. Slum populations are not just physically marginalized but also face social and economic exclusion. The situation is compounded by unequal distribution of resources, inadequate infrastructure, and socio-economic factors such as caste and gender, which further entrench inequalities.

Despite various government schemes and initiatives aimed at improving the living conditions of slum dwellers, much remains to be done in terms of addressing the root causes of slum formation and improving access to basic services like healthcare, sanitation, and education. Understanding the spatial distribution of slums, along with the socio-demographic characteristics of their populations, is essential for designing effective policies and urban planning interventions. This research focuses on analyzing the distribution of slums across Karnataka, exploring demographic data, and providing insights into socio-economic inequalities that persist in these settlements. By utilizing data from the Karnataka State Slum Clearance Board, this study presents a detailed examination of the socio-demographic makeup, gender disparities, caste representation, and minority group distribution within the slums of Karnataka.

### 1.1 Review of Literature

Several studies have highlighted the challenges faced by slum populations in India, particularly in terms of access to basic infrastructure, quality of life, and social exclusion. According to a report by the Ministry of Housing and Urban Affairs (2015), more than 65 million people in India live in slums, which account for nearly 17% of the urban population. Scholars like Bhowmik (2009) and Narayan (2013) have examined how slum populations often experience exclusion due to caste-based discrimination and economic marginalization. These studies underscore the importance of addressing socio-economic inequalities in slums, particularly among marginalized groups such as Scheduled Castes (SC), Scheduled Tribes (ST), and minorities.

Further, research on urban planning and development (Ghosh, 2015) emphasizes the role of spatial distribution in understanding slum conditions. Mapping slum areas using Geographic Information Systems (GIS) has become a crucial tool in identifying slum hot-spots, understanding their geographic spread, and providing actionable insights for urban planners. Studies like those by Puri and Das (2014) illustrate how GIS can be used to analyze spatial patterns of slums, enabling targeted interventions and better resource allocation.

This study builds upon these existing works by offering a district-wise analysis of slum settlements across Karnataka. By examining the interplay of spatial distribution and socio-demographic factors such as gender, caste, and socio-economic status, this research aims to provide a deeper understanding of slum dynamics and inform more effective policy responses.

### 1.2 Objectives

1. To analyze the spatial distribution of slum settlements across Karnataka, identifying areas with the

highest concentration of slums and understanding regional variations in slum prevalence.

2. To examine the socio-demographic characteristics of slum populations, focusing on gender distribution, caste composition, and minority group representation.

This streamlined focus allows for a more targeted analysis, providing critical insights into the patterns and socio-economic conditions of slums in Karnataka.

### 1.3 Study Area: Karnataka

Karnataka is a state located in the southwestern part of India. It is bordered by Maharashtra to the north, Goa to the northwest, the Arabian Sea to the west, Kerala to the southwest, Tamil Nadu to the southeast, and Andhra Pradesh to the east. The state has a diverse geography that includes coastal plains, hills, plateaus, and a rich river system. Its capital, Bengaluru, is one of India's largest metropolitan cities, often referred to as the "Silicon Valley of India" due to its thriving technology industry. As a major economic hub, Karnataka has witnessed rapid urbanization in recent decades. However, the economic growth has also brought about increased pressure on urban infrastructure, resulting in the expansion of slums in several districts of the state.

Karnataka is divided into 30 districts, each with distinct geographic, economic, and social characteristics. The state is home to a varied demographic, with both urban and rural populations facing different challenges. Urban areas such as Bengaluru, Mysuru, Mangaluru, and Hubli-Dharwad are the main centers of economic activity, whereas districts like Chikkamagaluru, Kodagu, and Udupi have a more rural character with a predominant focus on agriculture and tourism. The spatial distribution of slums varies significantly across these districts, reflecting the complex relationship between urbanization, industrialization, and population growth. In urban areas, slums often emerge as a consequence of rapid migration due to employment opportunities, while rural areas experience the proliferation of slums due to inadequate rural infrastructure and a lack of basic amenities.

The primary focus of this study is to explore the slum settlements across Karnataka and the socio-demographic characteristics of these areas. The analysis will be based on the data from the Karnataka State Slum Clearance Board, which identifies the notified slums and provides information on their population and socio-economic status. The study will assess both rural and urban slums, with particular attention to the large urban districts such as Bangalore Urban and Bellary, which host a significant proportion of the state's slum populations.

In urban districts like **Bangalore Urban**, slums have proliferated due to massive in-migration from rural areas and neighboring states, driven by the booming information technology sector, construction industry, and service-oriented

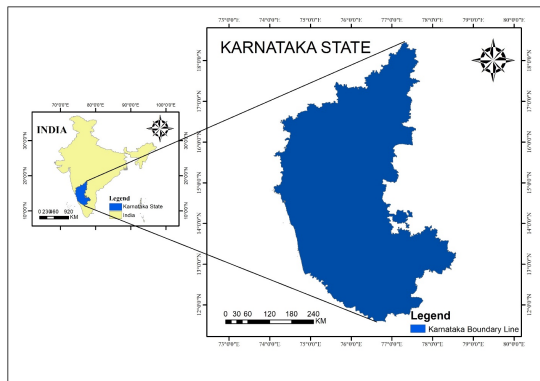


Fig. 1. Location map of Karnataka State

jobs. Bengaluru, the state's capital, is home to the highest number of notified slums, with districts like **Bangalore Rural**, **Mysuru**, and **Hubli-Dharwad** also experiencing rapid urban growth and corresponding slum expansion. The study will focus on understanding how these urban pressures have led to the creation of informal settlements with limited access to infrastructure and services.

On the other hand, rural districts such as **Kodagu**, **Chikkamagaluru**, and **Udupi** have less pronounced slum populations but face different challenges related to infrastructure and housing. For example, districts like **Kodagu** with a focus on tourism and **Chikkamagaluru**, known for its coffee plantations, experience seasonal migration, leading to temporary settlements that, over time, develop into slums due to a lack of long-term urban planning. Additionally, economic shifts and changes in local industries have exacerbated rural poverty, contributing to the emergence of slum-like conditions in certain areas.

The **coastal region** of Karnataka, including districts like **Dakshina Kannada** and **Udupi**, also presents a unique context. These districts face high population densities, especially in coastal towns like Mangaluru, which has seen rapid urbanization and an increase in informal settlements due to the growing port and industrial activities. Slums in these districts tend to be smaller in size but face similar challenges of overcrowding, lack of sanitation, and inadequate housing conditions.

The **northwestern part of Karnataka**, encompassing districts such as **Belagavi**, **Bagalkot**, **Bijapur**, and **Bagalkot**, is characterized by a mix of agricultural and industrial activity. While these regions have fewer large urban centers, the expansion of urban areas around district capitals and transportation hubs has contributed to slum formation. In some of these areas, the population dynamics are heavily influenced by local industries such as mining and agriculture,

which attract migrant laborers who end up living in slums.

The diversity in geographic, economic, and social conditions across Karnataka highlights the need for a detailed examination of slum settlements. Urban slums typically suffer from overcrowding, poor sanitation, limited access to health-care, education, and other basic services. In rural areas, the focus shifts to improving infrastructure, providing affordable housing, and ensuring that rural-to-urban migration does not contribute to the informal housing crisis. The study will assess how these varying regional dynamics influence the nature and distribution of slums in Karnataka, offering insights into potential policy measures that can address these disparities effectively.

The research will provide a comprehensive overview of the factors driving slum growth in both urban and rural contexts, examining the unique socio-economic and geographical characteristics of each district. By exploring the study area through this lens, the research aims to identify specific regional trends in slum development, contributing to a deeper understanding of the broader issue of urban inequality and poverty.

## 2 Methodology

This study adopts a mixed-methods approach, combining both quantitative and qualitative research techniques to analyze the spatial distribution and socio-demographic characteristics of slums in Karnataka. The primary data for this research is sourced from the Karnataka State Slum Clearance Board, which provides detailed information on the notified slums across the state. This includes data on the total number of slum settlements, the number of hutments or families, and the demographic composition of slum populations, with specific focus on gender, caste, and minority groups.

The quantitative aspect of the study primarily involves descriptive statistical analysis. Descriptive statistics such as frequencies, percentages, mean, and standard deviation will be used to summarize the data on slum populations. The analysis will focus on understanding the distribution of male and female populations, as well as the representation of Scheduled Castes (SC), Scheduled Tribes (ST), and other minority groups within the slums. Cross-tabulation will be utilized to explore the relationships between various demographic variables and their correlation with slum conditions, such as gender-based disparities and socio-economic status.

The study also incorporates a review of existing literature related to urbanization, slum development, and socio-economic challenges in India, particularly in Karnataka. This qualitative analysis will help provide a context for understanding the broader issues related to slum formation, migration patterns, and the socio-economic profiles of slum dwellers. The review will also assess past government interventions, policies, and their effectiveness in improving slum conditions.

Furthermore, qualitative data will be gathered from interviews or surveys with local authorities, community leaders, and residents of slum areas. These primary data collection methods will provide additional insights into the lived experiences of slum populations, the challenges they face, and their perspectives on issues like housing, infrastructure, sanitation, and access to basic services. This information will be used to complement the statistical analysis and provide a deeper understanding of the socio-economic dynamics within the slums.

Through this comprehensive methodology, the study aims to provide a thorough understanding of the socio-demographic characteristics and distribution of slums in Karnataka, ultimately contributing to informed policy recommendations for improving the living conditions and addressing the needs of slum dwellers in the state.

### 3 Results and Discussion

The results of this study on the distribution and socio-demographic characteristics of slums in Karnataka provide significant insights into the extent of slum settlements, population structure, and socio-economic disparities across various districts. The data sourced from the Karnataka State Slum Clearance Board reveals that slums are spread across both urban and rural areas of the state, with urban districts showing a higher concentration of slum populations due to rapid urbanization and migration.

### 4 Spatial Distribution of Slums

The Table 1 summarizes the data on the total number of notified slums, hutments or families, and the population in each district. It highlights the variation in the number of slums and the total slum population, demonstrating how certain districts, particularly those with larger urban centers, have higher slum densities.

### 5 Socio-Demographic Characteristics

The socio-demographic analysis of the slum populations reveals key patterns related to gender, caste, and minority group representation. The data collected shows that the male population generally outnumbers the female population in most districts. However, in some regions, the gender gap is relatively small, indicating more balanced sex ratios within slum communities. For instance, in **Bagalkot**, the male population is slightly higher (41,281) compared to females (42,692). This could be attributed to migration patterns where men typically migrate for work, and their families join them later.

Regarding caste and minority group distribution, it is observed that **Scheduled Castes (SC)** and **Scheduled Tribes (ST)** make up a significant proportion of the slum populations

in districts like **Chitradurga**, **Bellary**, and **Kalburgi**. These communities often migrate to urban areas in search of better living conditions and employment, but due to the lack of affordable housing and infrastructure, they end up living in slums. In the urban districts, the percentage of **minority groups** and other backward classes (OBCs) is also higher, indicating that slums in these areas are largely inhabited by economically marginalized groups.

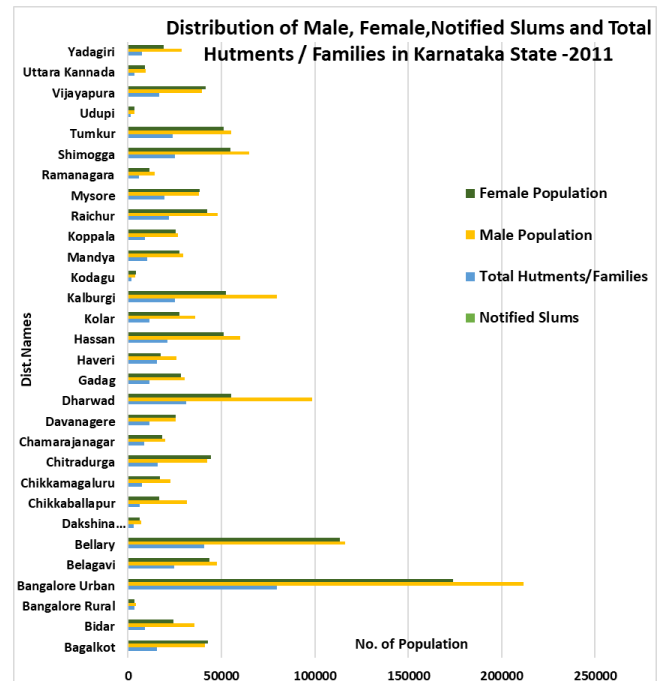


Fig. 2. Distribution of Male, Female, Notified Slums and Total Hutments /Families in Karnataka State

### 6 Discussion of Socio-Demographic Patterns

The analysis indicates that slums in urban Karnataka are disproportionately populated by marginalized groups, including lower-caste communities, minorities, and migrants from rural areas. The findings highlight how socio-economic status and migration patterns play a critical role in shaping the demographic profile of slum populations. The higher incidence of slums in **Bangalore Urban** reflects the pressures of rapid urbanization, where migrants seek better opportunities but end up in informal settlements due to the lack of affordable housing options.

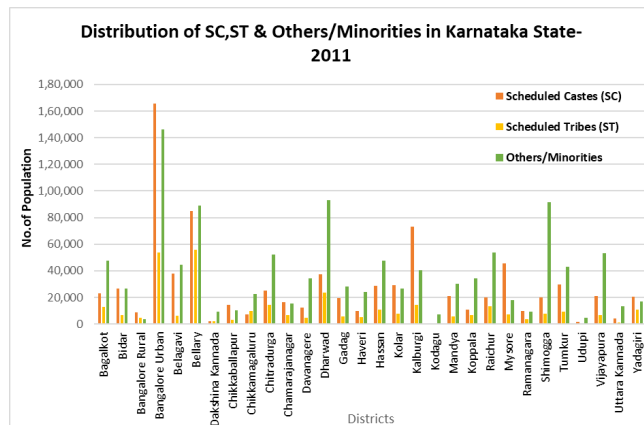
The gender distribution analysis reveals that while there are more males than females in slums, the difference is not always stark. In many districts, women tend to migrate after men, often joining their families later. Moreover, socio-economic challenges like lack of adequate housing, poor

Table 1. District-wise Distribution of Slums and Population in Karnataka

Sl. No.	District	Notified Slums	Total Hutments / Families	Male Population	Female Population	Scheduled Castes (SC)	Scheduled Tribes (ST)	Others / Minorities	Total Slum Population
1	Bagalkot	84	15,419	41,281	42,692	23,248	13,001	47,724	83,973
2	Bidar	68	8,850	35,452	24,446	26,552	6,627	26,719	59,898
3	Bangalore Rural	33	3,498	4,227	3,496	8,785	4,514	3,871	17,931
4	Bangalore Urban	411	79,710	211,663	173,864	165,600	53,761	146,194	414,125
5	Belagavi	193	24,609	47,461	43,591	37,781	6,419	44,759	100,481
6	Bellary	185	40,743	116,069	113,525	84,998	55,543	89,053	230,907
7	Dakshina Kannada	26	2,945	7,025	6,433	2,320	1,986	9,152	14,903
8	Chikka-ballapur	39	6,134	31,459	16,749	14,530	3,288	10,258	31,459
9	Chikkamagaluru	54	7,302	22,695	17,086	7,369	9,815	22,597	39,781
10	Chitradurga	61	15,747	42,537	44,219	25,308	14,287	52,129	95,559
11	Chamarajanagar	66	8,668	19,740	18,401	16,502	6,465	15,174	38,141
12	Davanagere	71	11,546	25,596	25,495	12,447	4,507	34,137	51,091
13	Dharwad	127	30,947	98,548	55,231	37,243	23,560	92,976	161,819
14	Gadag	87	11,576	30,243	28,346	19,417	5,894	28,064	58,589
15	Haveri	86	15,573	25,728	17,542	10,032	5,014	24,083	73,707
16	Hassan	105	21,015	59,989	51,257	28,832	11,044	47,514	111,246
17	Kolar	61	11,317	35,940	27,406	29,055	7,523	26,768	63,346
18	Kalburgi	147	25,100	79,505	52,543	73,133	14,377	40,375	141,884
19	Kodagu	10	1,624	3,961	4,146	816	111	7,180	8,107
20	Mandya	55	10,215	29,489	27,373	21,042	5,511	30,309	56,862
21	Koppala	45	9,123	26,526	25,477	11,048	6,685	34,270	52,003
22	Raichur	82	21,915	48,022	42,164	19,966	13,335	53,721	83,625
23	Mysore	114	19,508	38,027	38,264	45,432	7,343	17,926	87,809
24	Ramangara	52	5,657	14,350	11,300	9,533	3,772	9,069	27,318
25	Shimoga	164	25,098	64,818	54,742	19,909	7,944	91,707	123,664
26	Tumkur	126	23,818	55,074	50,992	29,760	9,019	43,031	120,173
27	Udupi	17	1,496	3,272	3,343	1,387	592	4,636	6,615
28	Vijayapura	80	16,496	39,408	41,550	20,866	6,740	53,352	80,958
29	Uttara Kannada	36	3,332	9,372	9,004	4,302	847	13,227	18,376
30	Yadagiri	49	7,429	28,812	19,206	20,338	10,774	16,906	50,226
	<b>Total In Karnataka</b>	<b>2,734</b>	<b>486,410</b>	<b>1,296,289</b>	<b>1,089,883</b>	<b>827,551</b>	<b>320,298</b>	<b>1,136,881</b>	<b>2,504,576</b>

Source: Collated from data procured from the Karnataka State Slum Clearance Board.





**Fig. 3. Distribution of SC,ST & Others/Minorities in Karnataka State-2011**

sanitation, and limited access to education and healthcare disproportionately affect female slum dwellers, leading to gender-based vulnerabilities.

The caste-based analysis also underscores the importance of inclusive urban planning. SC and ST populations often face additional challenges such as discrimination and exclusion, making it harder for them to secure housing in formal settlements. As a result, these communities are more likely to end up in slums, where living conditions are substandard.

## 7 Conclusion

The results of this study reveal the complex and intertwined socio-economic factors contributing to the growth and per-

sistence of slums in Karnataka. The slum populations are not only a reflection of urban growth but also a consequence of socio-economic inequalities, with marginalized communities bearing the brunt of urbanization pressures. The findings emphasize the need for targeted policies and interventions to address these inequalities and improve the living conditions of slum dwellers. Recommendations for sustainable urban development, including affordable housing and improved access to services, are essential to addressing the root causes of slum formation and ensuring a more equitable urban future for Karnataka.

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