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Spatial Inequality and Education: Unraveling the Geographical Dimensions of Educational Disparities

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ABSTRACT

Ensuring universal access to high-quality education to all individuals is not only a fundamental aspect of fostering a peaceful and prosperous global community, but it also plays a critical role in the attainment of Sustainable Development Goal (SDG)-4. Education equips individuals with the necessary knowledge and competencies to maintain good health, secure employment opportunities, and cultivate a culture of acceptance and understanding. The objective of this study is to investigate the correlation between geographic disparities and academic achievements by pinpointing the geographical attributes that give rise to educational inequities and suggesting measures to improve these outcomes. The present study offers valuable perspectives on the mechanisms required to achieve Sustainable Development Goal 4. The SDG-4 aims to guarantee universal access to quality education and lifelong learning opportunities, while promoting inclusivity and equity. This study offers a cost-effective and resource-efficient approach to tackle the issue of inadequate educational achievements caused by spatial inequality. The study has important implications to support policymakers in developing effective strategies to address these inequalities.

Keywords: Free and Compulsory Education, Regional Imbalances, Educational Disparity, Sustainable Development Goal (SDG-4)

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India is a vast country that covers an area of 3,287,263 square kilometers and boasts remarkable geographical diversity. Its terrain encompasses a wide range of landscapes, including snow-capped mountain ranges, deserts, plains, hills, and plateaus. Despite the notable advancements in national economic growth over the past thirty years following the implementation of LPG (liberalisation, privatisation, and globalisation) reforms in 1991, there has been a noticeable increase in inequality across various dimensions. These include disparities between urban and rural areas, disparities between different regions, and disparities between various socioeconomic groups (Koli, 2010).

The uneven growth of population and economic development has not only intensified preexisting geographical disparities, but has also given rise to several new forms of inequality, including limited access to quality healthcare, education, clean water and sanitation, and adequate transportation and infrastructure. Education is integral to human development and is the key factor in the realisation of numerous Sustainable Development Goals (SDGs). Therefore, in order to guarantee an education that is inclusive, equitable, and of high quality, as well as to encourage lifelong learning for all individuals, it is imperative to examine the relationship between geographic disparities and education.

Spatial inequality refers to the unequal distribution of resources, opportunities, and outcomes across different geographical areas. The geographical dimensions of educational disparities refer to the ways in which geography, including location, socioeconomic conditions, infrastructure, resource distribution, regional characteristics, and spatial factors, influences educational access, quality, opportunities and outcomes.

LITERATURE REVIEW

Numerous scholars have endeavored to comprehend the correlation between spatial disparity and education across the globe. According to Datzberger (2018), education holds a pivotal position in attaining both economic and social stability within a nation. The provision of education to a significant proportion of the populace in developing nations is a crucial strategy for addressing various challenges, such as poverty alleviation, industrial advancement, and sustainable development over an extended period (Bali Swain & Ranganathan, 2021). The Sustainable Development Goal-4 place explicit emphasis on the importance of access to quality education for various reasons (Naik *et al.* 2020).

Rizvi and Lingard (2010) in their article provide a thorough overview of the many theoretical frameworks and measures used to study geographical inequalities in education. This research digs into the significance of studying spatial inequality and highlights the role that social, economic, and political factors have in shaping regional differences in educational attainment. Suryanarayana *et al.* (2011) conducted an analysis on the possible negative impact of inequalities across various dimensions on human development. This study was conducted

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in response to growing concerns regarding persistent inequities and their long-term effects. The ramifications of inequality-induced loss are most pronounced in the realm of education, succeeded by health and income, respectively.

Mukherjee *et al.* (2014) have observed a significant level of heterogeneity and multiplicity across the states, coupled with a conspicuous educational disparity between rural and urban regions. Francisco H.G. Ferreira *et al.* (2015) focuses on one Brazilian city to analyse how educational opportunities and outcomes vary across space and time. This study investigates the influence of neighbourhood attributes, such as socioeconomic status and public amenities, on disparities in education. Brock and Preece (2017) in their book "Geographical Perspectives on Education Inequality" provides comprehensive insights into the theoretical frameworks, methodological approaches, and policy implications of studying educational inequality from a geographical perspective.

The discrepancies in education between rural and urban locations in India are analysed by Ranjan snd Singh (2018). This research uses geographical analysis to explore the gaps between rural and urban India in terms of educational achievement. The accessibility of schools, the quality of teaching staff, and the state of school infrastructure are some of the issues which pull down educational outcomes most. Syah and Suryanto (2020) conducted a study on this issue, focusing on the city of Jakarta. This study investigates the impact of various factors, such as the availability and calibre of educational institutions, as well as the level of community support for education, on the academic achievement of students. The study's results emphasise the necessity of rectifying geographic disparities as a means of enhancing educational equity.

Disparities in income, health, and education across space are identified by Kundu et al. (2020). The observed pattern confirms a significant level of disparity in educational and health indicators among different states. The Human Development Report- 2022 from the United Nations Development Programme (UNDP) shows large gaps in educational attainment across different regions of India. The aforementioned studies and resources underscore the justification for examining spatial disparities in relation to educational attainment.

OBJECTIVES OF THE STUDY

- ◆ To study the need for balanced Spatial Inequality with special reference to Education.
- ✤ To study the geographical determinants of Spatial Inequality in Education.
- ✤ To study various models to analyse Spatial Inequality and its impact on Education.
- ✤ To analyse the consequences of Spatial Inequality in Education.
- To highlight government initiatives to address Spatial Inequality in Education.
- ✤ To suggest the remedies to reduce the Spatial Inequality in Education.

RATIONAL OF THE STUDY

Education is widely recognized as a fundamental right and a key determinant of individual and societal development. By examining spatial inequality in educational status, researchers can identify areas where access to quality education is limited, thereby highlighting potential disparities and inequalities. Education plays a vital role in promoting social mobility, enabling individuals to improve their socioeconomic status and opportunities. Spatial inequality in educational status can have a profound impact on social mobility, as certain regions or communities may face barriers that limit their access to quality education.

Thus, studying spatial inequality in reference to educational status is a rational approach as it sheds light on disparities, proposes targeted interventions to mitigate them, informs policy decisions, promotes social mobility, ensures equitable access to education for all individuals, contributes to more inclusive economic development, and enhances overall societal wellbeing, regardless of their geographic location. Understanding the geographical variations in educational outcomes helps policymakers identify regions or communities that require additional support and investment. By analyzing spatial inequality, policymakers can design to address educational disparities and allocate resources where they are most needed.

RESEARCH METHODOLOGY

The present study is founded on a comprehensive analysis of existing secondary sources. The present study's data and information were sourced from various research papers, books, articles, and reports generated by national, international, and state agencies. The present research is characterised by a descriptive approach. The primary objective of this investigation is to ascertain the principal geographical determinants which contribute to spatial inequality in educational attainment. Additionally, this study aims to develop analytical models for assessing educational spatial inequality, examining its implications, and proposing measures and policies to mitigate its effects.

Geographical Determinants of Spatial Inequality in Education

Geographical variables may play a role in generating spatial disparities in academic achievements through various mechanisms. Several significant geographical factors can impact educational disparities:

- Geographic location and access: The geographical location and accessibility of educational institutions such as schools, colleges, and universities can exert a substantial influence on academic achievements. Rural locales, remote regions, and socially disadvantaged communities frequently encounter obstacles related to access to educational infrastructure and transportation, which can result in reduced levels of educational achievement.
- Socio-economic conditions: The intersection of geography and socio-economic factors can contribute to educational disparities. Socio-economically challenged communities,

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typified by households with low income, restricted economic prospects, and elevated poverty rates, may encounter constraints in allocating resources towards education, such as access to high-quality schools, technological advancements, and academic assistance.

- Infrastructure and amenities: Insufficiencies in infrastructure and transportation can potentially contribute to educational disparities. Inadequate infrastructure, including deficient road networks, limited public transportation, absence of school buses, insufficient sanitation facilities, and lack of utilities, can present significant obstacles to students' access to educational opportunities, particularly in rural or remote areas. Educational institutions operating in regions with inadequate infrastructure may encounter obstacles such as overcrowded classrooms, inadequate facilities, and substandard learning environments, all of which can hinder the academic advancement of students learning conditions.
- Resource distribution and educational funding: The distribution of educational resources and funding is influenced by geographical aspects. Disparities in education across various geographic regions may arise due to the unequal distribution of resources, which can be attributed to funding procedures, resource allocation policies, and regional disparities in economic development.
- Cultural and contextual factors: Geographical regions often have distinct cultural, linguistic, and contextual factors that can influence educational disparities. These factors may include indigenous cultures, languages, historical influences, and local traditions that can shape educational experiences and outcomes in unique ways.
- Neighborhood segregation: Spatial segregation, such as residential segregation or urbanrural divides, can lead to educational disparities. Segregated neighborhoods often face differences in socio-economic conditions, access to resources, and quality of schools, which can impact educational opportunities and outcomes for students residing in those areas.
- Environmental factors: Geographical variables such as exposure to pollution, crime rates, and safety concerns, have the potential to impact educational achievements. Pupils residing in regions with elevated environmental hazards may encounter health-related challenges, anxiety, and safety apprehensions that could impede their academic accomplishments and general welfare.

It is noteworthy that these aforementioned factors have the potential to interact and reinforce each other, thereby perpetuating spatial disparity in educational achievements. Comprehending the geographical aspects of educational inequalities is of utmost importance for policymakers, educators, and stakeholders to formulate focused interventions and policies that tackle the distinct hurdles encountered by diverse geographic areas.

Models for Analysing Spatial Inequality and its Impact on Education

There exist various theoretical frameworks and models that can be employed to examine spatial inequality and its influence on education. Several frameworks are frequently utilized are:

- Human Capital Theory: The first writings on human capital come from the 18th century Scottish economist, Adam Smith. But, the American economist, Greg Becker (1962), was arguably the biggest pioneer for the human capital theory. Human capital theory, argues that individual have a set of skills or abilities which they can improve or accumulate through training and education. Human Capital Theory emphasizes the role of education in enhancing individuals' skills, knowledge, and productivity, leading to higher earnings and socioeconomic mobility. It suggests that spatial inequality in education can contribute to disparities in human capital accumulation, limiting opportunities for individuals in disadvantaged geographic areas. Korres (2007) argued that, "a lack of investment in human capital ... prevents poor countries from catching up with rich ones".
- Social Reproduction Theory: American, British, and French academician in the 1960s and 1970s laid the groundwork for what is now known as the "social reproduction theory" of education. The theoretical underpinnings of this concept can be traced back in majorcworks such as "Schooling in Capitalist America" authored by Bowles and Gintis in 1976 and "Reproduction in Education, Culture, and Society" by Bourdieu and Passeron in 1977. Social Reproduction Theory examines how social inequalities are reproduced across generations. It argues that spatially unequal educational systems perpetuate and reproduce socioeconomic disparities. The basic reproductionist argument was that schools were not exceptional institutions promoting equality of opportunity; instead they reinforced the inequalities of social structure and cultural order found in a given country (Collins, 2009).
- Place-Based Approach: Place based education (PBE) is a pedagogical approach that emphasizes the connection between a learning process and the physical place in which teachers and students are located. It incorporates the meanings and the experiences of place in teaching and learning. It acknowledges that local setting, societal resources, and interpersonal interactions are all crucial factors in determining educational possibilities and achievements. This approach emphasizes tailoring educational interventions to address the specific needs and challenges of particular places or communities, thereby expanding the scope of education beyond the confines of the academic institution. The outbreak of the COVID-19 pandemic in early 2020 resulted in a renewed focus on PBE, as widespread school closures necessitated the swift implementation of alternative learning modalities such as outdoor instruction and remote learning (Miri, 2023).
- Spatial Mismatch Theory: Spatial Mismatch Theory suggests that disparities between job opportunities and the residential location of individuals can create obstacles in accessing quality education. For example, if disadvantaged communities are geographically distant from areas with better schools and employment opportunities, residents may face challenges in accessing education and finding suitable employment, perpetuating spatial inequality.

- Critical Geography Theory: Critical Geography draws attention to power dynamics, social structures, and political-economic processes that shape spatial inequality. It emphasizes the role of institutions, policies, and systems in creating and maintaining disparities in education. Critical geography frameworks examine how political decisions, resource allocation, and historical legacies influence the spatial distribution of educational resources and opportunities.
- Social Capital Theory: The Social Capital Theory delves into the significance of social networks, community connections, and relationships in relation to educational attainment and outcomes. The argument posits that regions with robust social capital, characterised by cohesive communities and networks, can furnish supplementary resources and prospects for attaining academic achievement. On the other hand, regions that exhibit lower levels of social capital may encounter difficulties in obtaining educational resources and establishing supportive networks.

Therefore, the aforementioned theoretical frameworks offer diverse viewpoints for analysing spatial disparities in education. Scholars and decision-makers frequently utilise a blend of these conceptual models to attain a holistic comprehension of the intricate interplays among geography, education, and inequality. The application of these frameworks facilitates the identification of fundamental mechanisms, processes, and structural factors contributing to spatial disparities in education. This, in turn, informs interventions that are targeted at mitigating these inequalities.

Consequences of Spatial Inequality on Educational Outcomes

The presence of spatial inequality in education has noteworthy implications for educational outcomes and the academic achievement of students. The following are significant consequences:

Unequal Access to Education: Spatial inequality frequently leads to disparities in educational access. Individuals residing in underprivileged geographical regions, such as remote or rural areas, may encounter restricted availability of high-quality educational institutions, advanced curricula, specialised initiatives, and supplementary activities as a result of extended distances, insufficient transportation infrastructure, or restricted school alternatives. The unequal distribution of access can impede students' capacity to explore a wide range of subjects, cultivate their skills, and obtain the resources essential for achieving academic excellence. This phenomenon may lead to a decrease in the number of students enrolling in educational programmes and a consequent limitation of their access to educational opportunities.

- Quality of education: Disparities in educational quality are another negative consequence of spatial inequality. Generally speaking, students in urban or developed areas have more options for their education because the schools in those areas have more resources at their disposal, including a wider variety of academic programmes, better infrastructure, more qualified teachers, and access to cutting-edge technologies. However, schools in less wealthy communities may have fewer resources, older buildings, fewer instructional materials, and fewer educational opportunities available to their students. Lessening educational results and student accomplishment, a lack of critical resources may impede effective teaching and learning.
- Academic Achievement Gap: Spatial inequality contributes to a disparity in academic achievement between students from different geographic regions. Students in disadvantaged regions may experience additional challenges such as lower socioeconomic status, limited access to resources, higher rates of poverty, lower academic performance, lower test scores, and higher dropout rates compared to their peers in more advantaged areas. As a result, they may have reduced chances for higher education, limiting their career prospects and perpetuating socioeconomic disparities.

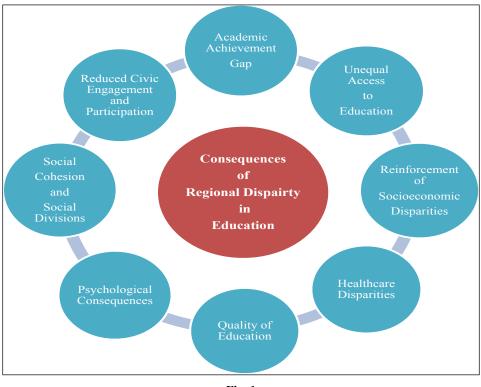


Fig. 1

Furthermore, the presence of spatial disparities in education carries noteworthy and enduring social and economic consequences that surpass the immediate academic achievements. The following are significant consequences to consider:

- Reinforcement of Socio-economic Disparities: Spatial inequality in education can perpetuate socioeconomic disparities across generations. Limited educational opportunities and lower educational attainment can perpetuate the cycle of poverty and hinder upward mobility, leading to the reproduction of social and economic inequality. This inequality affects not only individuals but also communities and regions, impacting overall economic growth and development.
- Psychological Consequences: Spatial inequality in education can have psychological and social consequences for students. Students in disadvantaged areas may experience feelings of inferiority, frustration, and limited aspirations due to the unequal access to educational opportunities.
- Inequitable Distribution of Skills and Human Capital: Spatial inequality in education results in an inequitable distribution of skills and human capital across different geographic areas. Disadvantaged areas may experience a shortage of skilled workers, limiting local economic growth and diversification. On the other hand, areas with better educational opportunities may attract more investment, leading to further concentration of resources and opportunities in those regions.
- Social Cohesion and Social Divisions: Education-related spatial inequalities have the potential to undermine social cohesion and exacerbate social divisions. The experience of being socially excluded and marginalised can arise as a result of persistent denial of access to education of superior quality to certain populations or regions. Consequently, the potential outcomes could include the emergence of social unrest, the formation of social hierarchies predicated on unequal distribution of resources, and the breakdown of societal cohesion.
- Reduced Civic Engagement and Participation: Disparities in educational access and quality have the potential to decrease civic engagement and participation. Individuals hailing from socioeconomically deprived regions may encounter limited prospects to gain the requisite knowledge and competencies essential for participating actively in civic affairs, such as critical thinking, communication, and problem-solving proficiencies. The outcome of this phenomenon may lead to a decline in engagement with democratic procedures, restricted representation, and diminished contribution to the advancement of the community.
- Healthcare Disparities: Regional disparities in education can contribute to disparities in healthcare. Due to an absence of health education and awareness, areas with fewer educational opportunities typically experience inferior health indicators. The limited

availability of quality education can impede individual's capacity to pursue healthcare and related professions, thereby exacerbating healthcare workforce scarcities in underprivileged regions.

Measures and Strategies for Adressing Educational Spatial Inquality

The imperative of rectifying spatial disparities in education cannot be overstated as it is pivotal in fostering a society that is characterised by fairness and inclusivity. Attaining the intended result requires a comprehensive strategy that encompasses fair distribution of resources, focused educational programmes, enhancement of teacher expertise, allocation of funds towards infrastructure, involvement of the community, and policy reforms. To mitigate spatial inequality and promote equitable access to education, it may be deemed appropriate to implement the following policy recommendations and interventions:

- Equitable Resource Allocation: Equitable resource allocation is a crucial aspect of ensuring fairness and justice in the distribution of resources. It is imperative to guarantee a fair and just allocation of educational resources, encompassing financial support, infrastructure, educational materials, and technological advancements, across diverse geographical regions. The allocation of resources should be based on the unique needs and characteristics of each region, taking into account various factors such as population density, socioeconomic indicators, and educational infrastructure deficiencies.
- Teacher Recruitment and Retention: The implementation of focused strategies for teacher recruitment and retention in underprivileged regions is recommended. To address the issue of teacher shortages in underprivileged areas, it is recommended to offer various incentives, professional development programmes, and support systems to attract and retain highly skilled and motivated educators.
- Enhance Infrastructure and Facilities: Allocate resources to bolstering infrastructure and facilities, with a focus on underserved communities. Invest in the construction and renovation of educational facilities so that all students have access to appropriate learning conditions. Commute times for students living in outlying locations should be reduced by enhancing regional transit options.
- Strengthen Early Childhood Education: Expanding access to high-quality early-childhood education programmes in low-income communities should be the top priority. Introduce programmes like preschool for all children, consolidated childcare and early learning facilities, and workshops for parents. Preparing children for school and narrowing achievement gaps both rely heavily on the quality of early childhood education.
- Targeted Scholarships and Financial Aid: The implementation of targeted scholarship and financial aid initiatives can provide support for students from underprivileged regions to pursue higher education. Provide financial aid, tuition exemptions, and scholarships

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to mitigate financial obstacles and guarantee equitable prospects for pursuing higher education and professional growth.

- Mobile and Digital Learning: The implementation of mobile and digital learning platforms is recommended to enhance educational access for students residing in remote and underserved regions. It is imperative to enhance the accessibility of online educational resources, e-learning platforms, and virtual classrooms. The utilisation of technology can potentially mitigate geographical hindrances and facilitate the provision of high-quality education to individuals who are unable to avail themselves of conventional educational establishments.
- Community Engagement and Partnerships: The promotion of community engagement and partnerships is crucial in establishing collaborative relationships between schools, families, local organisations, and entities.
- Data-Driven Policies and Monitoring: Establish solid data collecting mechanisms to track achievement gaps and evaluate reform efforts. Data should be analysed and evaluated on a regular basis to help guide evidence-based policies and direct limited resources and initiatives where they will have the most impact.
- Inclusive Education Practices: This recommendation advocates for the implementation of inclusive education practises that address the varying learning requirements of students, encompassing those with disabilities, linguistic minorities, and marginalised communities.
- Awareness and Outreach Programs: The implementation of awareness and outreach programmes is recommended to disseminate information regarding the significance of education and the various educational opportunities like scholarships, support services, and educational programmes that are accessible to students, families, and communities.

The effective implementation of these proposed policies and interventions requires a strong political determination, collaboration among diverse stakeholders, and sustained investment in education.

Existing Policies Aimed to Reduce Spatial Inequality in Education

To reduce the geographical disparity in educational opportunities and improve the quality of education in underserved areas, the government of India has implemented a number of policies and measures. Some of these efforts are discussed below:

Sarva Shiksha Abhiyan (SSA): The Sarva Shiksha Abhiyan (SSA) is a prominent initiative introduced by the Indian Government in 2001, which translates to "the school for all" in Sanskrit. The initiative's focus is on providing children in low-income regions, aged 6 to 14, with access to equitable and high-quality educational options. Infrastructure investment, teacher recruitment and training, curriculum creation, and inclusive education practises are all areas where the SSA invests heavily.

- Aspirational Districts Programme's: The Aspirational Districts Programme is a government initiative aimed at improving the socio-economic conditions of underdeveloped districts in India.
- Schemes for Development of Backward Areas: The current policy for backward area development includes special schemes like the Hill Area Development Programme (HADP), the Western Ghats Development Programme (WGDP), the Border Area Development Programme (BADP), the desert development programme, the drought-prone area programme, the command area development programme, the hill area development projects and sub-plans, the North Eastern Council set-up, and others.
- Rashtriya Madhyamik Shiksha Abhiyan (RMSA): The Rashtriya Madhyamik Shiksha Abhiyan (RMSA) was initiated in 2009 with the goal of improving the availability and quality of secondary education in India. The initiative expands access to education for all students, provides professional development for educators, and modifies existing vocational programmes.
- Mid-Day Meal Scheme: The Mid-Day Meal Scheme, implemented in 1995, has been instrumental in enhancing the nutritional status, enrolment, continuation, and attendance of primary and upper primary school students.
- Kasturba Gandhi Balika Vidyalaya (KGBV): The Kasturba Gandhi Balika Vidyalaya (KGBV) is a residential school for girls from low-income backgrounds, especially those living in rural regions. It was started in 2004 to help close the gender gap in education and boost girls' opportunities to get a good education. In order to ensure their participation and lessen geographical inequities in education, KGBV offers education, residential facilities, and support services to girls from marginalised families.
- National Skill Development Mission: The National Skill Development Mission aims to tackle skill shortages and enhance employment opportunities for the youth. The programme offers vocational training and skill development opportunities to underprivileged communities. This strategy aims to enhance skill development and vocational education as a means to increase employment opportunities and reduce economic inequality.
- Equity Initiatives in Higher Education: Numerous equity initiatives have been introduced in the realm of higher education with the aim of mitigating spatial disparities. The aforementioned endeavours encompass reservation policies that offer affirmative action to socially and economically marginalised factions, namely Scheduled Castes (SC), Scheduled Tribes (ST), and Other Backward Classes (OBC). The objective of these policies is to facilitate the inclusion and equitable representation of individuals from underprivileged regions in institutions of higher learning.

- National Education Policy-2020: The National Education Policy of 2020 aims to bring about a comprehensive and fundamental transformation in the educational framework, with a focus on inclusivity. The focal point of this approach is 'Equitable and Inclusive Education', which underscores the notion that every child should have equal access to educational opportunities, irrespective of their socio-cultural identities and background.
- Digital Education Programme such as Digital India initiatives, DIKSHA platform (Digital Infrastructure for Knowledge Sharing Z, Digital Mobile Library, Online MOOC Course (Massive Open Online Course), E-pathshala etc.

SUGGESTIONS

Although policies and interventions have been implemented to address spatial inequality in education in India, there are still ongoing challenges that need to be addressed. In order to successfully address spatial disparity in education and provide more equitable opportunities for youngsters in diverse geographic locations, we need concentrated efforts, new ideas, and targeted policies and initiatives. This may involve initiatives like:

- Equalizing funding and resource allocation to ensure that schools in disadvantaged areas receive adequate support.
- Improving transportation infrastructure to enhance access to education in remote or underserved regions.
- Providing professional development opportunities and incentives to attract and retain high-quality teachers in areas facing shortages.
- Expanding Digital Literacy at the school/college level.
- Expanding digital educational programs and opportunities in underserved areas to ensure equitable access to diverse learning experiences.
- Promoting new financial institution in geographically backward region to accelerate the pace of industrialization.
- Setting up of Regional Boards with necessary legal powers and fund (as per Article 321-D of Indian Constitution).
- Setting Up Growth Corridors comprised of educational zones, agricultural zones and industrial zones.
- Targeted scholarships and financial aid programs aim to increase access to higher education for students in disadvantaged areas.
- Collaborative partnerships and regional initiatives have been successful in addressing spatial inequality by pooling resources, expertise, and efforts across multiple stakeholders.

Setting up Community schools and Charter Schools: By addressing the non-academic barriers to learning, community schools have been effective in improving educational outcomes and narrowing disparities in disadvantaged areas.

CONCLUSION

Spatial inequality poses a significant challenge not only to the free and compulsory education to all but it also hampers the goal of inclusive growth and reduction of poverty. By addressing spatial inequality, societies can promotes social mobility, foster economic growth, and build a more cohesive and prosperous future for all individuals, regardless of their geographic location. By reducing disparities in educational access and quality, societies can create a more equitable education system that enables all individuals to achieve their maximum capabilities and provides all students with equal opportunities to succeed academically and pursue their aspirations. It is noteworthy that in order to reduce the spatial inequality in the realm of Education necessitates a collaborative, innovative, multifaceted and context specific approach.

REFERENCES

- Bali Swain, R. and Ranganathan, S. 2021. Modeling interlinkages between sustainable development goals using network analysis. *World Development*, **138**.
- Bowles, S. and Gintis, H. 1976. Schooling in Capitalist America. New York: Basic Books.
- Bourdieu, P. and Passeron, J.C. 1977. Reproduction in Education, Society, and Culture. Beverly Hills: Sage.
- Collins, J. 2009. Social Reproduction in Classrooms and Schools. Annual Review of Anthropology, 38(1): 33-48.
- Datzberger, S. 2018. Why education is not helping the poor. Findings from Uganda. *World Development*, **110**: 124–139.
- Francisco, H.G. and Peragine, V. 2015. *Equality of Opportunity: Theory and Evidence*, IZA Discussion Papers, No. 8994, Institute for the Study of Labor (IZA), Bonn
- https://www.education.gov.in/, accessed 14th May 2023.
- https://www.education.gov.in/rmsa, accessed 18th May 2023.
- https://www.niti.gov.in/aspirational-districts-programme, accessed 21st May 2023.
- Koli, A. 2012. Poverty Amid Plenty in the New India, Cambridge University Press, Cambridge.
- Becker, G.S. 1962. Investment in human capital: A theoretical analysis. *Journal of Political Economy*, **70**(5, Part 2): 9-49.
- Korres, G., Liargkovas, P. and Tsamadias, C. 2007. "Regional Disparities and the Effects of Innovation Activities on Regional Integration", *In:* Korres, G. (ed.), Regionalisation, Growth and Economic Integration, Germany: Springer.
- Kundu, A., Mohanan, P.C. and Varghese, K. 2013. Spatial and social inequalities in human development: India in the global context. UNDP, India.
- Miri, Y., Laura, E. and Adi B.S. 2023. *Place-based education a systematic review of literature, Educational Review,* DOI: 10.1080/00131911.2023.2177260

- Naik, G., Chitre, C., Bhalla, M. and Rajan, J. 2020. Impact of use of technology on student learning outcomes: Evidence from a large-scale experiment in India. World Development, **127**.
- Niranjan, R. 2020. Spatial inequality in human development in India- A case study of Karnataka. *Sustainable Future*, **2**.
- Ranjan, P. and Singh, Y. 2018. Spatial Inequality in Education: A Comparative Study of Rural and Urban Areas in India.
- Rizvi, F. and Lingard, B. 2010. Spatial Inequality in Education: A Review of Concepts, Measures, and Evidence.
- Robinson, C. and Pope, R. 2023. Minoritized individuals and knowledge-economy. International Encyclopedia of Education (Fourth Edition), pp. 244–250.
- Suryanarayana, M.H., Agrawal, A. and Prabhu, S.K. 2011. Inequality Adjusted Human Development Indexes for Human Development. UNDP.
- Syah, M.F. and Suryanto, A. 2020. Spatial Inequality in Education: The Case of Jakarta, Indonesia.
- Mukherjee, S., Chakraborty, D. and Sikdar, S. 2014. *Three Decades of Human Development Across Indian States: Inclusive Growth or Perpetual Disparity?* National Institute of Public Finance and Policy, New Delhi.
- Xu Di. and Fletcher, J. 2017. Understanding the Relative Value of Alternative Pathways in Postsecondary Education: Evidence from the State of Virginia. Bridges, Pathways and Transitions, pp. 227–257.