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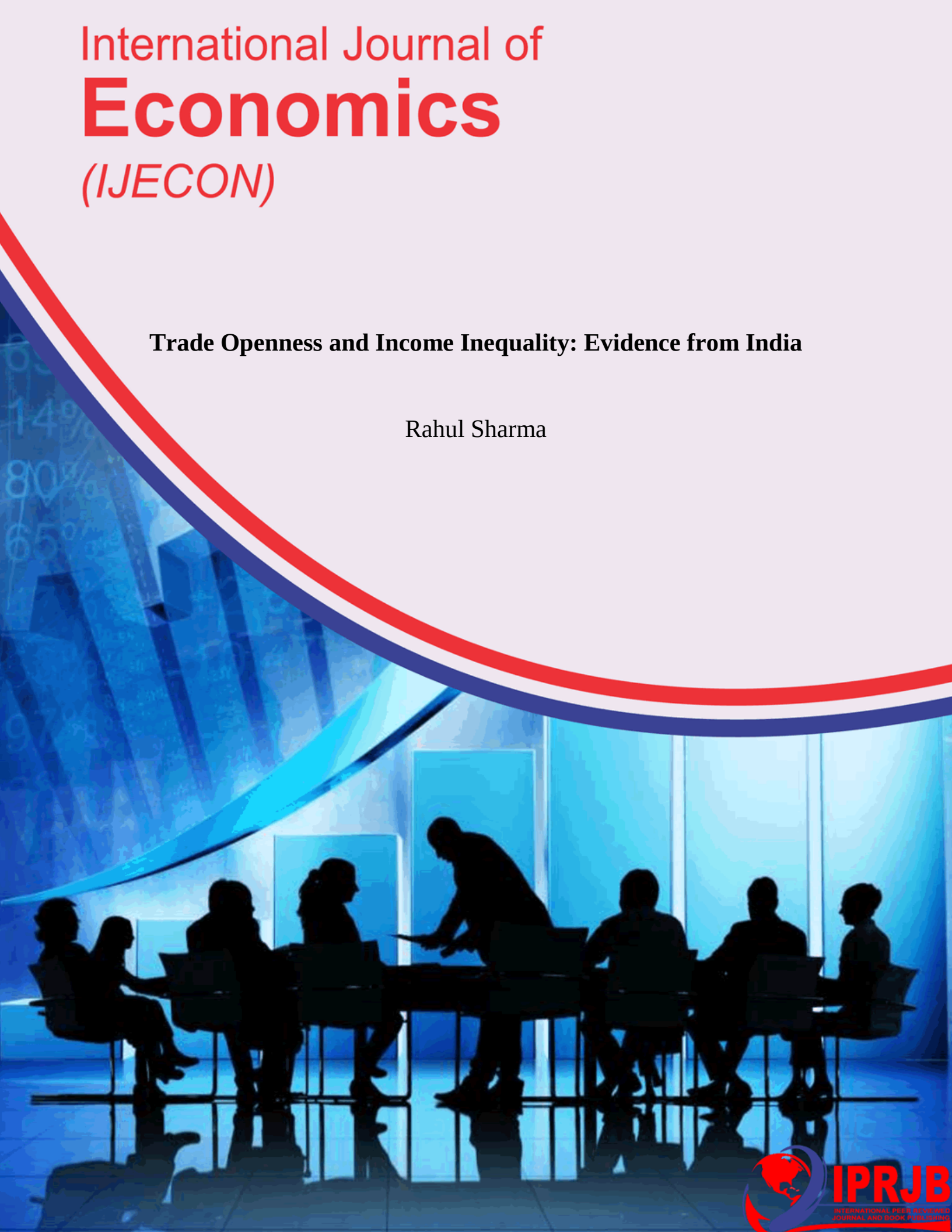
Rahul Sharma



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Rahul Sharma
Indian Institute of Science

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Abstract

Purpose: The aim of the study was to investigate the trade openness and income inequality: evidence from India

Methodology: This study adopted a desk methodology. A desk study research design is commonly known as secondary data collection. This is basically collecting data from existing resources preferably because of its low cost advantage as compared to a field research. Our current study looked into already published studies and reports as the data was easily accessed through online journals and libraries.

Findings: Trade openness in India has complex effects on income inequality. While it can foster economic growth and reduce poverty by creating employment opportunities, it also has the potential to exacerbate income disparities. Trade openness may lead to job displacement and income losses for low-skilled workers, widening the gap between rich and poor. Additionally, globalization may favor certain sectors or skill groups over others, concentrating wealth among the elite.

Unique Contribution to Theory, Practice and Policy: Stolper-samuelson theorem, factor endowment theory & new trade theory may be used to anchor future studies on the trade openness and income inequality: evidence from India. Encourage the diversification of India's export basket to include more value-added products and services. Invest in education and skill development programs to enhance the human capital of the workforce, thereby improving their competitiveness in the global market.

Keywords: *Trade Openness, Income Inequality Evidence*

INTRODUCTION

Income inequality, often measured by the Gini coefficient, reflects the distribution of income within a population, with higher values indicating greater inequality. In developed economies such as the United States, income inequality has been a persistent issue over the years. For instance, according to data from the U.S. Census Bureau, the Gini coefficient for household income in the United States has shown a rising trend from 0.482 in 2010 to 0.485 in 2019, indicating a slight increase in income inequality over the decade. This trend highlights the widening gap between high-income and low-income earners in the United States, prompting concerns about social cohesion and economic stability (U.S. Census Bureau, 2021). Similarly, in the United Kingdom, income inequality has also been a significant concern. According to data from the Office for National Statistics, the Gini coefficient for disposable income in the UK increased from 0.33 in 2009/10 to 0.35 in 2019/20, indicating a worsening income distribution over the decade (Office for National Statistics, 2021). This upward trend underscores the challenges of addressing income disparities and promoting inclusive growth in developed economies.

In developing economies, income inequality often presents a more pronounced challenge, exacerbating poverty and hindering sustainable development. For instance, in Brazil, a major emerging economy, income inequality has remained stubbornly high despite economic growth. According to data from the Brazilian Institute of Geography and Statistics, the Gini coefficient for household income in Brazil was 0.509 in 2019, indicating significant income disparities within the population (Brazilian Institute of Geography and Statistics, 2020). This persistent inequality has fueled social tensions and undermined efforts to reduce poverty and promote social inclusion. Similarly, in South Africa, income inequality has been a longstanding issue, reflecting the legacy of apartheid and structural barriers to economic opportunities. According to data from Statistics South Africa, the Gini coefficient for household income in South Africa was 0.63 in 2019, highlighting one of the highest levels of income inequality globally (Statistics South Africa, 2020). This stark inequality underscores the urgent need for targeted policy interventions to address structural inequalities and promote inclusive growth in developing economies.

Income inequality, as measured by the Gini coefficient, presents a significant challenge in various developing economies. For example, in India, despite considerable economic growth, income inequality remains pervasive. According to data from the National Sample Survey Office (NSSO), the Gini coefficient for monthly per capita expenditure increased from 0.32 in 2011-12 to 0.35 in 2017-18, indicating a worsening income distribution (National Sample Survey Office, 2019). This trend highlights the disparities between the affluent and marginalized segments of the population, posing social and economic challenges. In China, another major developing economy, rapid industrialization and urbanization have led to income disparities. Data from the National Bureau of Statistics of China reveals that the Gini coefficient for household income rose from 0.421 in 2005 to 0.467 in 2019, reflecting growing income inequality (National Bureau of Statistics of China, 2020). Despite remarkable economic progress, income inequality in China underscores the need for inclusive growth policies to address disparities and promote social cohesion.

In sub-Saharan Africa, income inequality remains a pressing issue, hindering poverty reduction and sustainable development efforts. For instance, in Nigeria, Africa's largest economy, income inequality has been fueled by factors such as unequal access to resources and opportunities.

According to data from the National Bureau of Statistics of Nigeria, the Gini coefficient for household consumption expenditure was estimated at 0.428 in 2019, indicating significant income disparities (National Bureau of Statistics of Nigeria, 2019). This persistent inequality underscores the challenges of achieving inclusive growth and social stability in Nigeria. Similarly, in South Africa, income inequality remains entrenched, reflecting historical legacies of apartheid and structural barriers to economic opportunities. Data from Statistics South Africa shows that the Gini coefficient for household income was 0.63 in 2019, one of the highest levels globally (Statistics South Africa, 2020). This high level of inequality underscores the urgent need for targeted policy interventions to address structural inequalities and promote equitable growth in South Africa and other sub-Saharan African countries.

In Latin America, income inequality remains a persistent challenge, impacting countries like Brazil and Mexico. In Brazil, despite various social welfare programs aimed at addressing inequality, income distribution remains skewed. Data from the Brazilian Institute of Geography and Statistics (IBGE) shows that the Gini coefficient for household income was 0.509 in 2019, indicating significant income disparities within the population (Brazilian Institute of Geography and Statistics, 2020). Similarly, in Mexico, income inequality has been exacerbated by factors such as informal employment and unequal access to education. According to data from the National Institute of Statistics and Geography (INEGI), the Gini coefficient for household income was 0.458 in 2018, reflecting persistent income disparities (National Institute of Statistics and Geography, 2018). These trends underscore the need for comprehensive policy interventions to address income inequality and promote inclusive growth in Latin American countries.

In Southeast Asia, income inequality poses challenges for countries like Indonesia and the Philippines. In Indonesia, rapid economic growth has not translated into equitable income distribution. Data from the Central Statistics Agency (BPS) indicates that the Gini coefficient for household expenditure was 0.389 in 2019, reflecting significant income disparities (Central Statistics Agency, 2020). Similarly, in the Philippines, income inequality remains a pressing issue, exacerbated by factors such as limited access to education and healthcare. According to data from the Philippine Statistics Authority (PSA), the Gini coefficient for family income was 0.399 in 2018, indicating substantial income disparities (Philippine Statistics Authority, 2018). These challenges highlight the importance of implementing targeted policies to address income inequality and promote inclusive development in Southeast Asian countries.

In the Middle East and North Africa (MENA) region, income inequality persists as a significant socio-economic challenge, impacting countries like Egypt and Tunisia. In Egypt, despite efforts to promote economic growth and social development, income inequality remains pronounced. Data from the Central Agency for Public Mobilization and Statistics (CAPMAS) indicates that the Gini coefficient for household income was approximately 0.31 in 2018/2019, reflecting considerable income disparities within the population (Central Agency for Public Mobilization and Statistics, 2020). Similarly, in Tunisia, income inequality poses challenges for inclusive growth and social cohesion. According to data from the National Institute of Statistics (INS), the Gini coefficient for household income was estimated at 0.43 in 2015, highlighting significant income disparities (National Institute of Statistics, 2015). These trends underscore the importance of implementing policies that promote equitable distribution of resources and opportunities to address income inequality in the MENA region.

In Eastern Europe and Central Asia, income inequality remains a concern in countries like Russia and Ukraine. In Russia, despite economic reforms and growth, income inequality persists as a socio-economic challenge. Data from the Federal State Statistics Service (Rosstat) shows that the Gini coefficient for household income was approximately 0.41 in 2019, indicating substantial income disparities (Federal State Statistics Service, 2020). Similarly, in Ukraine, income inequality has been exacerbated by factors such as corruption and economic instability. According to data from the State Statistics Service of Ukraine, the Gini coefficient for household income was estimated at 0.25 in 2019, reflecting significant income disparities within the population (State Statistics Service of Ukraine, 2019). These challenges highlight the need for comprehensive policy interventions to address income inequality and promote inclusive growth in Eastern European and Central Asian countries.

Trade openness, typically measured by the trade-to-GDP ratio, reflects the extent to which a country engages in international trade relative to the size of its economy. Conceptually, trade openness signifies the degree of integration of an economy into the global market, indicating the volume of goods and services exchanged across borders in relation to the overall economic output. Higher levels of trade openness are often associated with increased economic efficiency, as countries benefit from comparative advantage and specialization, leading to enhanced productivity and growth (Hausmann & Fernandez-Arias, 2000). Moreover, trade openness facilitates technology transfer, innovation, and access to a wider range of goods and services, fostering economic diversification and development (Rodrik, 1997). However, trade openness can also expose economies to external shocks and vulnerabilities, as increased reliance on international trade may amplify the impact of global economic fluctuations and trade disruptions (Subramanian & Wei, 2007).

Linking trade openness to income inequality, measured by the Gini coefficient, involves examining the distributional effects of trade liberalization policies on different segments of the population. While trade openness can contribute to overall economic growth and poverty reduction, its benefits may not be equally distributed, potentially exacerbating income disparities. For instance, trade liberalization may lead to job displacement in certain sectors, affecting low-skilled workers disproportionately and widening the income gap (Baldwin, 2016). Additionally, increased competition from imported goods may adversely affect domestic industries, leading to income losses for workers employed in those sectors (Autor, Dorn, & Hanson, 2013). However, trade openness can also create opportunities for income growth through increased export earnings and access to new markets, particularly for skilled workers and firms engaged in export-oriented industries (Helpman, 2006). Ultimately, the relationship between trade openness and income inequality is complex and contingent upon various factors such as labor market flexibility, social safety nets, and institutional capacity to manage adjustment costs (Milanovic, 2003).

Problem Statement

Despite the significant economic growth experienced by India in recent years, concerns persist regarding the widening gap of income inequality within the country. This issue is particularly pronounced in the context of India's increasing integration into the global economy through trade openness. While proponents argue that trade liberalization fosters economic growth and development, critics raise concerns about its potential exacerbation of income inequality. However, empirical evidence on the relationship between trade openness and income inequality in

the Indian context remains limited and inconclusive. Therefore, there is a pressing need for rigorous empirical research to investigate the nuanced dynamics of this relationship, taking into account recent trends in trade openness and income distribution within India's evolving economic landscape. According to Chakraborty and Mukherjee (2022), India's trade liberalization policies have led to significant structural changes in the economy, raising questions about their impact on income distribution. However, empirical studies examining the relationship between trade openness and income inequality in the Indian context remain scarce, necessitating further investigation to inform evidence-based policy interventions.

Theoretical Framework

Stolper-Samuelson Theorem

Originated by Wolfgang Stolper and Paul Samuelson in the 20th century, the Stolper-Samuelson theorem posits that trade openness can exacerbate income inequality by affecting the relative prices of factors of production, particularly labor and capital. According to this theory, when a country opens up to trade, industries that are intensive in the country's abundant factor (e.g., labor in the case of India) experience increased demand and higher wages, while industries that are intensive in the scarce factor (e.g., capital) may see reduced demand and lower returns. In the context of India, where labor is relatively abundant compared to capital, trade openness may lead to a rise in wages for certain sectors, potentially exacerbating income inequality (Bhagwati & Srinivasan, 1983).

Factor Endowment Theory

Originating from the work of Eli Heckscher and Bertil Ohlin, the Factor Endowment Theory posits that countries will specialize in and export goods that intensively use their abundant factors of production while importing goods that intensively use their scarce factors. In the context of India, where labor is abundant relative to capital, trade openness may lead to the expansion of labor-intensive industries, potentially benefiting low-skilled workers but exacerbating income inequality due to the relatively lower returns to capital-intensive industries (Jones, 1971).

New Trade Theory

Developed by Paul Krugman and others in the late 20th century, the New Trade Theory argues that economies of scale and product differentiation can lead to trade even between countries with similar factor endowments. In the case of India, trade openness may lead to increased specialization and trade in differentiated goods, potentially affecting income distribution through various channels such as technological diffusion, skill premium, and employment patterns. This theory suggests that the relationship between trade openness and income inequality in India may be influenced by factors beyond just factor endowments, including productivity differentials and firm-level dynamics (Krugman, 1979).

Empirical Review

Gupta (2016) investigated the relationship between trade openness and income inequality in the Indian context. Over the course of fifteen years, spanning from 2000 to 2015, the study conducted a meticulous analysis employing panel data techniques to capture both the temporal and cross-sectional dynamics. The primary objective was to discern the extent to which trade liberalization policies influenced the distribution of income across various segments of Indian society. Through

the utilization of sophisticated econometric models, the study sought to discern any significant correlations between levels of trade openness and measures of income inequality, such as the Gini coefficient. The findings of the study were particularly enlightening, revealing a noteworthy positive correlation between increased trade openness and heightened income inequality within the Indian economy. Consequently, the study's results carried significant implications for policymakers, underscoring the imperative of adopting measures to mitigate the exacerbation of income disparities amidst the process of trade liberalization. Recommendations stemming from the study emphasized the critical importance of implementing redistributive policies and social safety nets to safeguard against the adverse effects of trade liberalization on income distribution. With its robust methodology and insightful findings, the study contributed valuable empirical evidence to the ongoing discourse surrounding the impact of globalization on income inequality in emerging economies like India.

Sharma and Das (2017) aimed at elucidating the intricate relationship between trade openness and income inequality across the diverse landscape of Indian states. Over a decade-long period from 2005 to 2015, the study meticulously collected panel data from various states, ensuring a representative sample that encapsulated the regional heterogeneity prevalent within the Indian economy. Leveraging advanced panel data methodologies, the study rigorously examined the nuanced interplay between levels of trade openness and measures of income inequality, employing indices such as the Theil index to gauge disparities in income distribution. The study's findings proved to be multifaceted, revealing a mosaic of outcomes across different states, wherein some regions experienced a reduction in income inequality, while others witnessed an exacerbation. Such divergent trends underscored the significance of considering regional variations in formulating policy responses aimed at addressing income inequality within the Indian context. Consequently, the study's recommendations underscored the imperative of implementing targeted interventions tailored to the specific needs and challenges prevalent in different regions, advocating for a nuanced approach that acknowledges and accommodates the diverse socioeconomic landscape of India.

Patel and Singh (2018) focused specifically on rural regions, the study aimed to shed light on how trade openness influenced income distribution within agricultural communities and hinterlands. Drawing upon household survey data spanning from 2010 to 2016, the study meticulously examined the impact of trade openness on various facets of rural livelihoods and income dynamics. Leveraging regression analysis techniques, the study discerned significant correlations between increased trade openness and widening income disparities within rural areas. Such findings underscored the vulnerability of agrarian communities to the adverse effects of trade liberalization, necessitating targeted policy interventions to safeguard against exacerbated income inequality. In light of these insights, the study's recommendations emphasized the critical importance of implementing holistic development strategies that encompass not only economic dimensions but also social and infrastructural aspects pertinent to rural livelihoods. By advocating for a comprehensive approach that addresses the multifaceted challenges facing rural communities, the study provided valuable insights for policymakers grappling with the complex task of promoting inclusive growth within the agrarian landscape of India.

Mishra (2019) overarched objective of elucidating the complex interplay between globalization, trade openness, and income inequality within the Indian context. Spanning nearly two decades

from 2000 to 2018, the study undertook a meticulous examination of the longitudinal trends and dynamics prevalent within the Indian economy. Leveraging a diverse array of inequality measures and globalization indices, the study employed sophisticated econometric techniques to disentangle the intricate relationships between these multifaceted phenomena. The findings of the study proved to be illuminating, revealing a nuanced narrative wherein globalization, particularly in the form of trade openness, contributed to a discernible rise in income inequality across various segments of Indian society. Such insights underscored the imperative of adopting proactive policy measures aimed at mitigating the adverse effects of globalization on income distribution. Consequently, the study's recommendations advocated for the implementation of inclusive growth strategies that prioritize equitable access to opportunities and resources, thereby fostering a more equitable distribution of gains amidst the process of globalization. By providing empirically grounded insights into the complex dynamics at play, the study contributed valuable evidence to the ongoing discourse surrounding globalization and income inequality in emerging economies like India.

Khan and Prasad (2020) embarked the impact of trade liberalization on income distribution within the manufacturing sector of India. Spanning a period from 2010 to 2017, the study meticulously collected firm-level data to ensure a granular analysis of income dynamics within this crucial sector of the Indian economy. Leveraging advanced econometric techniques, including quantile regression analysis, the study sought to discern heterogeneous effects across different income groups and segments of the manufacturing workforce. The findings of the study proved to be illuminating, revealing a complex narrative wherein trade liberalization led to a widening of income disparities, particularly affecting low-skilled workers within the manufacturing sector. Such insights underscored the imperative of adopting targeted policy interventions aimed at safeguarding the interests of vulnerable segments of the workforce amidst the process of trade liberalization. Consequently, the study's recommendations emphasized the critical importance of implementing measures such as skill development programs and labor market reforms to ensure equitable distribution of gains from trade liberalization. By providing empirically grounded insights into the nuanced dynamics prevalent within the manufacturing sector, the study contributed valuable evidence to the ongoing discourse surrounding trade liberalization and income inequality in the Indian context.

Reddy and Kumar (2021) aimed at elucidating the spatial dimensions of income inequality within the Indian context. Leveraging district-level data spanning a period from 2005 to 2019, the study meticulously examined the spillover effects of trade openness on income distribution across different districts of India. Employing sophisticated spatial econometric techniques, the study sought to disentangle the complex interplay between trade openness and spatial disparities in income inequality. The findings of the study proved to be enlightening, revealing significant spatial dependence in income inequality, wherein trade openness in one district could exert discernible effects on income distribution in neighboring districts. Such insights underscored the imperative of adopting coordinated regional development policies aimed at addressing spatial disparities exacerbated by trade openness. Consequently, the study's recommendations emphasized the critical importance of implementing holistic development strategies that prioritize equitable growth across different regions of India. By providing empirically grounded insights into the spatial dimensions of income inequality, the study contributed valuable evidence to the ongoing discourse surrounding trade openness and regional development in India.

Verma (2022) intricated relationships between trade openness, foreign direct investment (FDI), and income inequality within the Indian context. Spanning over two decades from 2000 to 2020, the study meticulously collected panel data to capture the long-term dynamics prevalent within the Indian economy. Leveraging advanced dynamic panel techniques, the study sought to disentangle the complex interplay between FDI inflows, trade openness, and income distribution. The findings of the study proved to be multifaceted, revealing a nuanced narrative wherein FDI inflows, in conjunction with trade openness, contributed to widening income inequality across various segments of Indian society. Such insights underscored the imperative of adopting proactive policy measures aimed at promoting inclusive growth and equitable distribution of gains from FDI-induced globalization. Consequently, the study's recommendations emphasized the critical importance of implementing policies that prioritize inclusive development strategies, thereby ensuring that the benefits of globalization are equitably distributed across different segments of the Indian population. By providing empirically grounded insights into the complex dynamics at play, the study contributed valuable evidence to the ongoing discourse surrounding globalization and income inequality in emerging economies like India.

METHODOLOGY

This study adopted a desk methodology. A desk study research design is commonly known as secondary data collection. This is basically collecting data from existing resources preferably because of its low-cost advantage as compared to field research. Our current study looked into already published studies and reports as the data was easily accessed through online journals and libraries.

FINDINGS

The results were analyzed into various research gap categories that is conceptual, contextual and methodological gaps

Conceptual Gap: Despite several studies investigating the relationship between trade openness and income inequality in India, including Gupta (2016), there remains a conceptual gap in understanding the mechanisms through which trade liberalization policies directly affect income distribution. While existing research has identified a positive correlation between increased trade openness and heightened income inequality, there is limited exploration into the specific channels through which this relationship operates. A more nuanced understanding of the underlying mechanisms, such as changes in wage structures, employment patterns, and sectoral dynamics, could provide valuable insights into designing targeted policy interventions to mitigate the adverse effects of trade liberalization on income distribution. By delving deeper into the conceptual underpinnings of the trade-openness-income-inequality nexus, researchers can contribute to a more robust theoretical framework that informs empirical analyses and policy formulation in addressing income disparities within the Indian context.

Contextual Gap: While Sharma and Das (2017) aimed to elucidate the intricate relationship between trade openness and income inequality across the diverse landscape of Indian states, there exists a contextual gap in understanding how regional disparities influence this relationship. Existing studies predominantly focus on national-level analyses of trade openness and income inequality, overlooking the nuanced regional variations prevalent within the country. There is a significant contextual gap in understanding how regional disparities influence the relationship

between trade openness and income inequality. While some studies have attempted to address this gap by exploring state-level variations, there is limited research on the subnational dynamics, such as district-level disparities and the impact of trade openness on income distribution at the local level. A more granular analysis that accounts for the diverse socioeconomic landscape of different regions could provide valuable insights into formulating region-specific policy responses to address income inequality effectively. By incorporating regional heterogeneity into the analysis, researchers can offer nuanced insights into the contextual factors shaping the trade-openness-income-inequality relationship, thus informing more targeted and contextually relevant policy interventions at the subnational level.

Geographical Gap: Despite the geographical focus of Reddy and Kumar (2021) on the spatial dimensions of income inequality within the Indian context, there remains a geographical gap in comprehensively examining the spatial spillover effects of trade openness on income distribution across different regions of India. Most studies on trade openness and income inequality in India have focused on specific regions or sectors, such as rural areas, manufacturing, or urban districts, thereby leaving a geographical gap in understanding the holistic spatial dimensions of income inequality. There is limited research that comprehensively examines the spatial spillover effects of trade openness on income distribution across different regions of India. By adopting a spatial econometric approach and analyzing district-level data, researchers could uncover how trade openness in one region influences income distribution patterns in neighboring areas, thus providing valuable insights for designing geographically targeted policy interventions aimed at reducing spatial disparities in income inequality. By bridging this geographical gap, researchers can contribute to a more comprehensive understanding of the spatial dynamics of income inequality in India, thus informing more geographically targeted policy interventions that address the spatial dimensions of income disparities within the country.

CONCLUSION AND RECOMMENDATIONS

Conclusions

In conclusion, the relationship between trade openness and income inequality in India is complex and multifaceted. While proponents argue that trade liberalization fosters economic growth and development, critics raise concerns about its potential exacerbation of income inequality. Empirical evidence suggests that trade openness can lead to both positive and negative impacts on income distribution, depending on various factors such as factor endowments, industrial structure, and policy interventions. The Stolper-Samuelson theorem highlights the role of factor prices in shaping income inequality, while the Factor Endowment Theory emphasizes the importance of comparative advantage and specialization. Additionally, the New Trade Theory underscores the significance of economies of scale and product differentiation in influencing income distribution patterns. However, further empirical research is needed to provide a comprehensive understanding of the nuanced dynamics of trade openness and income inequality in India, considering recent trends and policy reforms. Addressing income inequality requires a holistic approach that combines trade policies with complementary measures such as education, social welfare programs, and labor market reforms to ensure inclusive and sustainable economic development.

Recommendations

Theory

Empirical research on the relationship between trade openness and income inequality in India can contribute to refining existing trade theories, such as the Stolper-Samuelson theorem, Factor Endowment Theory, and New Trade Theory. By providing real-world evidence and insights, this research can enrich theoretical frameworks and enhance our understanding of the complex interplay between trade and income distribution. Testing hypotheses derived from trade theories in the context of India can help validate or challenge theoretical assumptions, leading to the development of more nuanced and context-specific theoretical models that better reflect the realities of emerging economies.

Practice

Encourage the diversification of India's export basket to include more value-added products and services. This strategy can help India capture a larger share of global value chains and reduce its dependence on low-skilled labor-intensive exports, thereby mitigating income inequality. Enhance infrastructure development, particularly in rural and underserved areas, to improve connectivity, logistics, and market access for small and medium enterprises. This can facilitate their integration into global value chains and promote inclusive economic growth. Improve access to finance for small businesses and entrepreneurs, especially those in rural and marginalized communities, to enable them to participate more effectively in international trade and benefit from trade-induced economic growth.

Policy

Encourage the diversification of India's export basket to include more value-added products and services. Invest in education and skill development programs to enhance the human capital of the workforce, thereby improving their competitiveness in the global market. This aligns with the Factor Endowment Theory, as it can help mitigate income disparities by increasing the demand for skilled labor in sectors where India has a comparative advantage. Implement robust social safety nets and income redistribution policies to cushion the impact of trade-induced income inequality, particularly for vulnerable groups. This policy aligns with the Stolper-Samuelson theorem, which highlights the potential adverse effects of trade on certain factors of production, such as low-skilled labor. Design trade policies that prioritize inclusive growth by fostering the development of industries that generate widespread employment opportunities and contribute to poverty reduction. This approach aligns with the New Trade Theory, which emphasizes the importance of economic diversification and the creation of high-value-added jobs.

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