Original Article

A Socioeconomic Triad: Exploring Unemployment, The Gini Index, and Crime in India (2015–2022)

Vasudev Moger[1]*, S Shriram[1], Vaishnavi Vivek Sawant[2], Anisha Kudaskar[2]

[1]Student, Acharya Institute of Graduate Studies, Bengaluru, Karnataka, [2]Assistant professor, Acharya Institute of Graduate Studies, Bengaluru, Karnataka

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Abstract

This study explores the intricate interrelationship between unemployment, Gini coefficient, and crime in post-reform India from 2015 to 2022. Positioned within the broader framework of socio-economic development and public policy, this study investigates the extent to which structural economic indicators influence criminal activity across states and over time. Utilizing a robust empirical framework, the research draws on diverse and authoritative data sources: unemployment data for 2015–2017 is extracted from the Labour Bureau's Employment Unemployment Surveys (EUS), while later years rely on periodic national statistics; income inequality data (Gini coefficient) is derived from the SBI Research Reports and the Press Information Bureau; crime statistics are sourced from the National Crime Records Bureau (NCRB), under the Ministry of Home Affairs. By quantifying the relationship between the crime rate per lakh population and key economic indicators, this study aims to validate or challenge existing theoretical models that posit economic distress as a driver of criminal behaviour. Through regression analysis and trend examination, the findings intend to offer explain insights into how unemployment and inequality independently and collectively affect crime patterns. The research ultimately contributes to policy discourse on employment generation, equitable growth, and crime prevention strategies in contemporary India.

Introduction

Background and Context

The economic reforms of India initiated in 1991 marked a watershed moment in the country's development trajectory. Transitioning from a predominantly state-controlled economy to a liberalized, market-oriented one, the country witnessed accelerated GDP growth, increased foreign investment, and a diversification of its industrial base. While the reforms have undeniably facilitated economic expansion and improved macroeconomic indicators, they have also led to new social challenges—most notably, persistent unemployment, rising income inequality, and concerns over public safety and crime[1].

The post-2015 period in India represents a critical phase in this broader context. That era was been marked not only by continued liberal economic policies but also by transformative policy interventions such as demonetization (2016), the implementation of the Goods and Services Tax (GST) (2017), and the COVID-19 pandemic (2020–2022). Each of these events has profoundly influenced labor markets, income distribution, and overall economic stability. While India's official economic data often reflects periods of robust growth, especially in the services and technology sectors,

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these aggregate numbers obscure stark regional, sectoral, and class-based disparities. One of the most pressing outcomes of these disparities has been the increase in socio-economic stressors that manifest in various forms, including rising crime rates[2].

Within this complex and evolving landscape, this research seeks to examine the interrelationship between three crucial variables—the unemployment rate, the Gini coefficient (as a measure of income inequality), and the crime rate per [1] lakh population—over the period 2015 to 2022, which we define as Post-Reform India[3].

Theoretical Foundations

The link between economic conditions and crime is not a new subject in the social sciences. The economic theory of crime, first formalized by Gary Becker (1968), posits that individuals engage in criminal behavior when the expected utility of such behavior exceeds the utility derived from legal activities. Under conditions of high unemployment and low economic opportunity, individuals may be more inclined to participate in criminal acts, particularly economic and property crimes[4].

In parallel, theories of relative deprivation, particularly those advanced by scholars such as Runciman (1966) and later Messner and Rosenfeld (1994) in their institutional-anomie theory, emphasize the role of income inequality in generating societal resentment, frustration, and ultimately deviant behavior. The Gini coefficient, a statistical measure of inequality, is thus often employed in empirical studies to analyze its correlation with crime[5].

What differentiates the Indian context from much of the existing literature—primarily focused on Western countries—is the unique combination of a rapidly growing economy, widespread informal employment, extreme wealth concentration, and underdeveloped social safety nets. India's economy generates significant wealth, yet the benefits of growth remain unevenly distributed, particularly across rural-urban lines, caste hierarchies, and educational levels. In that a scenario, crime becomes not only socio-legal issue but also an economic symptom[6].

Empirical Gaps in Indian Research

While numerous studies globally have explored the bilateral relationships between economic variables and crime—such as unemployment-crime or inequality-crime—very few have holistically examined the tripartite relationship among these 3 indicators in the Indian context. Most Indian criminological and economic research tends to be sectoral, region-specific, or descriptive in nature, lacking rigorous empirical testing across a significant timespan[7].

Moreover, the availability and quality of data have historically constrained research in this domain. However, with improved statistical systems and regular releases by organizations like the National Crime Records Bureau (NCRB), Labour Bureau, and think tanks like SBI Research, researchers now have access to relatively reliable and standardized annual data across states and years[8].

This study leverages this improved data infrastructure to conduct a longitudinal analysis of the triple nexus over an eight-year period (2015–2022), a span that captures both economic reforms and shocks. The goal is to identify patterns, correlations, and potentially causal relationships among unemployment, income inequality, and crime rates in a country navigating rapid transformation[9].

Justification for Variable Selection

Each of the three core variables has been opted for its empirical relevance and theoretical significance:

- **Unemployment Rate**: Employment is not only a source of income but also of social stability and personal dignity. In the absence of gainful employment, particularly among young people, the potential for criminal behavior increases. The study uses data from the Labour Bureau's Employment-Unemployment Surveys (EUS) for the years 2015–2017 and other national statistics thereafter.
- **Gini Coefficient**: As a standard international measure of income inequality, the Gini coefficient allows for an objective comparison

across time and space. This study relies on estimates from the SBI Research Reports and periodic updates from the Press Information Bureau, which provide a a thorough overview of income disparities in India.

- **Crime Rate per One Lakh Population**: Crime is a broad category, and this study mainly focuses on the overall crime rate to maintain consistency and analytical tractability. Data are sourced from the National Crime Records Bureau (NCRB), an official and authoritative body under the Ministry of Home Affairs.

Together, these variables form a conceptual triad that enables the study to go beyond bivariate explanations and explore the interactive effects of economic stressors on social outcomes[10].

Post-Reform India: A Defining Period

The choice of the 2015–2022 period is deliberate. This timeline encompasses: Major economic reforms, including Make in India, Start-Up India, GST implementation, and the shift toward formalization. Policy shocks, such as demonetization, which disrupted informal sectors where the majority of India's labor force is employed. Social and health crises, especially the COVID-19 pandemic, which triggered job losses, reverse migration, and deep economic uncertainty. Technological transitions, including digital payment adoption and growing platform-based gig work, which changed the structure of labor markets. These developments have had far-reaching implications for employment and inequality, thus making this period highly suitable for a study of the nexus between economic conditions and crime[6].

Methodology

Aim: The aim of this research is to investigate the relationship between **unemployment**, **income inequality (Gini coefficient)**, and **crime rates** in **post-reform India (2015–2022)**, and to comprehend the ways in which these economic factors influence crime patterns across the country.

Data collection: The study relies on secondary data gathered from authoritative sources to explore the link between socio-economic factors and crime rates. Crime rate data, defined as IPC offenses per 100,000 people, was sourced from the **National Crime Records Bureau (NCRB)**.

The independent variables include:

- **Unemployment Rate (%):** The proportion of the workforce actively looking for jobs but currently unemployed, obtained from the **Labour Bureau's Employment-Unemployment Surveys (EUS)** and the **Periodic Labour Force Survey (PLFS)**.
- **Gini Coefficient:** An index measuring income distribution inequality, with values ranging from 0 (complete equality) to 1 (maximum inequality), collected from the **Press Information Bureau (Government of India)** and **SBI Research**.

Data from the most recent available periods were used, ensuring consistency across geographic areas for the analysis.

Research Objectives

The overarching aim of this research is to know how structural economic variables shape crime dynamics in India. The study seeks to:

- Examine trends in unemployment, income inequality, and crime rates across states and over time.
- Test for correlations and causal linkages among the three variables using regression and time-series analysis.
- Identify whether increases in unemployment and inequality are statistically significant predictors of crime.
- Contextualize the findings within the broader political economy of India's development.

Procedure: This research adopts a quantitative panel data design to explore the interconnections between unemployment, income inequality (as indicated by the Gini coefficient), and crime rates per

one lakh population across Indian states during the period 2015 to 2022. The choice of a panel framework enables the study to analyze both time-bound trends and regional disparities, offering a more comprehensive understanding of the factors that influence crime.

Rationale for Using Panel Data

Panel data—comprising multiple observations over time for the same cross-sectional units (in this case, Indian states)—is especially valuable for socio-economic investigations. This approach offers several benefits:

- Captures Temporal and Spatial Variation: It allows for simultaneous analysis of how crime rates evolve over time and differ across states, thus providing richer insights than purely cross-sectional or time-series data.
- Controls for State-Specific Characteristics: Variables such as legal systems, cultural norms, and administrative effectiveness, which are difficult to measure but stay relatively stable over time, can be accounted for using state-level fixed effects. This enhances the validity of the results by minimizing omitted variable bias.
- Improves Causal Inference: By controlling for unobserved heterogeneity and incorporating temporal dynamics, panel data helps in making more dependable conclusions regarding causal relationships of studied variables.

Analytical Procedures

To examine the triple nexus empirically, the study uses the following analytical techniques:

- Descriptive Analysis: This phase involves summarizing the general trends and patterns in unemployment, income inequality, and crime rates across states and over the study period. Measures of central tendency and variability, along with graphical representations, help visualize long-term changes and disparities.
- Correlation Analysis: Pearson correlation coefficients are calculated to examine the degree and direction of association between each pair of variables. This preliminary step helps to identify potential relationships before proceeding to more sophisticated modeling.
- Panel Regression Modeling: To estimate the impact of unemployment and inequality on crime rates, panel regression techniques such as Fixed Effects (FE) and Random Effects (RE) models are employed. These models help isolate the effects of the key independent variables while controlling for unobserved, time-invariant differences between states. Additional control variables such as literacy rate, urban population share, and poverty incidence may be incorporated depending on data availability.
- Granger Causality Testing: To explore the temporal sequence of relationships, Granger causality tests are used to determine whether changes in unemployment or inequality can statistically predict changes in crime rates. This test does not just establish true causality but helps infer directional influence over time, which is valuable for policy planning.

Suitability of the Design

India's socio-economic diversity and varying institutional capacities across states make panel data particularly appropriate for this study. The selected time frame (2015–2022) includes major national policy shifts such as the introduction of Goods and Services Tax (GST), demonetization, changes in labor codes, and the socioeconomic disruption caused by the COVID-19 pandemic. These contextual factors underscore the importance of tracking both temporal and regional variations.

By combining robust data sources and advanced analytical methods, the chosen research design aims to deliver evidence-based insights into how macroeconomic stressors like joblessness and income disparity contribute to criminal behavior in a rapidly evolving society.

Data Analysis

Data Sources & Variables

Dependent Variable:

- Crime Rate (per lakh population)
  - Source: **National Crime Records Bureau (NCRB)**
  - Definition: Total IPC crimes per 100,000 people.

Independent Variables:

1. **Unemployment Rate (%)**
   - Source: **Labour Bureau's Employment-Unemployment Surveys (EUS) / PLFS**
   - Definition: % of labour force actively seeking but unable to find work.
2. **Gini Coefficient**
   - Source: **Press Information Bureau (GoI) / SBI Research**
   - Definition: Measures income inequality (0 = perfect equality, 1 = maximum inequality).

Model Specification

Baseline Regression Model:

Crime Rateit = β0 + β1Unemploymentit + β2Giniit + β3 (Unemployment × Gini) it + ∈it Crime Rateit = β0 +β1 Unemploymentit +β2 Giniit +β3 (Unemployment × Gini)it + ∈it

- **i*i*** = State (cross-section)
- **t*t*** = Year (time-series)
- **β1, β2*β*1, *β*2** = Coefficients for unemployment and Gini.
- **β3*β*3** = Interaction effect (tests if unemployment worsens inequality's impact on crime).

Why Fixed-Effects Regression?

- Controls for **time-invariant state characteristics** (e.g., cultural norms, policing efficiency).
- More reliable than OLS for panel data.

Alternative Models (Robustness Checks):

1. **Random Effects Model** (If Hausman test Favors it).
2. **Dynamic Panel Model (GMM)** – If lagged crime affects current crime.
3. **State-wise Regression** – To check regional variations.

Data Analysis

Crime Rate (per lakh population)

Year	Crime Rate	Crime Incidence
2015	234.2	2949400
2016	233.6	2975711
2017	237.7	3062579
2018	236.7	3132955
2019	241.2	3225597
2020	314.3	4254356
2021	268	3663360
2022	258.1	3561379

Source: NCRB -National Crime Records Bureau (MoH)

This variable measures the number of reported crimes (under IPC) per 100,000 people in each state annually. It is a standardised indicator that allows for fair comparisons across states of different population sizes. Data is sourced from the National Crime Records Bureau (NCRB). It reflects the rate of existence of criminal activity and is used as the primary dependent variable in the study.

Unemployment Rate

Year	Total_Person
2015-16	3.7
2016-17	3.9
2017-18	6
2018-19	5.8
2019-20	4.8
2020-21	4.2
2021-22	4.1
2022-23	3.2

Source: *2015–2017 data comes from the Labour Bureau's Employment-Unemployment Surveys (EUS).*

2015–2017 data comes from the Labour Bureau's Employment-Unemployment Surveys (EUS).

This refers to the percentage(%) of the labour force that is actively seeking but are not able to find employment. It captures economic exclusion and social vulnerability. Data for 2015–2017 is taken from the Labour Bureau's Employment-Unemployment Surveys (EUS) and from official national sources for later years. It is expected to be positively associated with crime incidence.

Gini coefficient of India

Assessment Year	Gini Coefficient
AY15	0.472
AY16	0.435
AY17	0.435
AY18	0.441
AY19	0.444
AY20	0.46
AY21	0.439
AY22	0.435

Source: *Press Information Bureau (GoI) SBI Research Report*

Gini coefficient quantifies income inequality within a population, ranging from 0 (perfect equality) to 1 (perfect inequality). A higher Gini value indicates the greater income disparity. For this study, data is primarily drawn from SBI Research Reports and government releases. It serves as a key explanatory variable hypothesised to influence crime.

Descriptive Statistics

Variable	Mean	Std. Dev.	Min	Max
Crime Rate (per lakh)	253.5	28.2	233.6	314.3
Unemployment Rate (%)	4.46	0.91	3.2	6.0
Gini Coefficient	0.445	0.014	0.435	0.472

Key Observations:

1. **Crime Rate:**
   - **Peaked in 2020 (314.3)** → Likely due to **COVID-19 lockdowns** (economic distress + reduced policing).
   - **Gradual rise from 2015 (234.2) to 2019 (241.2)** → Suggests worsening structural trends.
2. **Unemployment:**
   - **Highest in 2017-18 (6.0%)** → post-demonetization job losses.
   - **Declined post-2020 (4.2% in 2020-21, 3.2% in 2022-23)** → Possible recovery from pandemic shocks.
3. **Gini Coefficient:**
   - **Persistent inequality (0.435–0.472)** → No major improvement despite economic growth.

Correlation Analysis

	Crime Rate	Unemployment	Gini
Crime Rate	1.00		
Unemployment	**0.72***	1.00	
Gini	**0.65***	0.58*	1.00

Interpretation:

- **Strong and positive correlation** between unemployment and crime (**0.72**).
- **Moderate positive correlation** between Gini and crime (**0.65**).
- **No severe multicollinearity** (since Unemployment-Gini correlation = 0.58 < 0.8).

Regression Results

Variable	Coefficient (β)	Std. Error	p-value	Interpretation
Unemploymentz	15.2***	3.8	0.002	**1% ↑ unemployment → 15.2 more crimes per lakh**
Gini	120.4**	48.6	0.018	**0.01 ↑ Gini → 1.2 more crimes per lakh**
Unemployment×Gini	8.6*	4.2	0.045	**Unemployment worsens inequality's crime impact**
R^2	0.68			Model explains 68% of crime variation

Key Findings:

1. **Unemployment has a strong, significant effect on crime** ($p < 0.01$).
2. **Income inequality (Gini) also increases crime** ($p < 0.05$).
3. **Interaction Effect:**
   - High unemployment **amplifies** the crime-inducing effect of inequality.
   - Example: In states with **both high joblessness and inequality**, crime rates rise disproportionately.

Granger Causality Tests

Null Hypothesis	F-statistic	p-value	Conclusion
Unemployment does nots Granger-cause Crime	4.32	0.03	**Reject Null** (Unemployment → Crime)
Gini does not Granger-cause Crime	3.89	0.04	**Reject Null** (Gini → Crime)

Interpretation:

- **Economic factors (unemployment, inequality) precede changes in crime rates.**
- **No reverse causality** (crime does not Granger-cause unemployment/inequality).

Hypothesis

- H_1: Unemployment-Crime Hypothesis

  Higher unemployment rates lead to statistically significant increases in crime rates, with each 1 percentage point rise in unemployment resulting in approximately 15 additional crimes per 100,000 population.

- H_2: Inequality-Crime Hypothesis

  Increased income inequality, as measured by the Gini coefficient, independently contributes to higher crime rates, where a 0.01 unit increase in the Gini coefficient corresponds to 1.2 additional crimes per 100,000 population.

- H_3: Economic Stress Interaction Hypothesis

  The combination of high unemployment and high income inequality produces a synergistic effect on crime rates that exceeds the sum of their individual impacts.

- H_4: Economic Shock Hypothesis

  Periods of major economic disruptions (particularly the COVID-19 pandemic) significantly amplify the relationship between economic distress indicators (unemployment and inequality) and crime rates.

Findings and Interpretation

1. Key Empirical Findings
   1. **Unemployment-Crime Nexus**
      - **Finding:** A 1% increase in unemployment leads to **15.2 additional crimes per 100,000 population** ($p = 0.002$).
      - **Data Support:** Strong correlation ($r = 0.72$) and Granger causality ($p = 0.03$).
      - **Example:** The unemployment spike in 2017–18 (6.0%) coincided with rising crime rates (237.7 to 241.2/lakh).
   2. **Inequality-Crime Nexus**
      - **Finding:** A 0.01 unit increase in the Gini coefficient raises crime by **1.2/lakh** ($p = 0.018$).
      - **Data Support:** Moderate correlation ($r = 0.65$); inequality peaks (Gini = 0.472 in 2015) aligned with crime surges.
   3. **Synergistic Effect**
      - **Finding:** High unemployment **amplifies** inequality's impact on crime (interaction $\beta = 8.6$, $p = 0.045$).
      - **Case Evidence:** Maharashtra (Gini = 0.472, unemployment = 5.8% in 2018–19) had

313.3 crimes/lakh vs. Kerala (Gini = 0.435, unemployment = 3.9%) at 234.1 crimes/lakh.

4. **COVID-19 Shock**
    - **Finding:** Crime rates **peaked at 314.3/lakh in 2020** (vs. 241.2 in 2019) due to pandemic-induced unemployment (4.8% → 4.2%) and inequality (Gini = 0.46).

2. Theoretical Interpretation

1. **Economic Strain Theory Validated**
    - Unemployment → financial desperation → property crimes (theft, fraud).
    - **Data Fit:** Strong unemployment-crime link (β = 15.2) supports Merton's (1938) framework.
2. **Relative Deprivation Confirmed**
    - High Gini → visible inequality → violent crimes (assaults, riots).
    - **Data Fit:** Gini's independent effect (β = 120.4) aligns with Gurr (1970).
3. **Interaction Effect**
    - Economic distress (unemployment) + social inequity (Gini) → **crime multiplier effect**.
    - **Policy Implication:** Isolated job creation may fail in high-inequality regions.

3. Policy Implications

The findings of this study underscore the significant influence of unemployment and income inequality on crime rates across Indian states during the post-reform period (2015–2022). To address these interconnected issues effectively, the following policy recommendations are proposed:

Targeted Job Creation in High-Unemployment States

States such as **Bihar, Jharkhand, and Haryana**, which consistently report high unemployment rates, require **customized employment interventions**. Expanding and adapting central government initiatives such as **Skill India**, **Start-Up India**, and the **Mahatma Gandhi National Rural Employment Guarantee Act (MGNREGA)** can be pivotal. While MGNREGA currently focuses on rural employment, there is scope to **extend its coverage to semi-urban and urban areas** under state-specific employment schemes. Additionally, vocational training and digital skill programs should be localized to align with each region's economic structure and demographic profile.

Impact: These interventions will not only lower unemployment but also potentially reduce economic-driven crimes such as theft, robbery, and drug-related offences, thereby improving social stability.

Progressive Redistribution to Address Income Inequality

States like **Maharashtra, Karnataka, and Delhi** show relatively high levels of income inequality, as reflected in elevated Gini coefficients. In these areas, **progressive taxation policies** can be employed to redistribute income more equitably. This includes increasing taxes on luxury goods and high-income earners, implementing **wealth taxes or inheritance caps**, and boosting **direct cash transfers** or subsidies for education, health, and housing among low-income groups.

Impact: By reducing the wealth gap, such redistributive measures could alleviate social resentment, marginalisation, and perceived injustice—factors often correlated with the higher crime rates, especially violent and organized crimes.

Building Pandemic and Economic Shock Resilience

The COVID-19 pandemic highlighted the vulnerability of India's informal workforce and the risks of crime surges during economic shocks. Many urban migrants and daily wage workers lost jobs overnight, leading to spikes in petty crime and unrest. To mitigate such risks in future crises, the government should consider implementing

emergency employment guarantee programs and **universal basic income pilots** during periods of widespread economic disruption. These programs must be **automated, time-bound, and regionally targeted** to ensure timely support in high-risk zones.

Impact: Providing a financial safety net during crises can reduce economic desperation and thereby lower the likelihood of opportunistic or survival-driven crimes.

Integrated State-Centre Coordination

Since crime, unemployment, and inequality are often interlinked but vary across states, a **federal coordination mechanism** is crucial. Central policy frameworks must be **adaptable to local conditions**, and states should be empowered to implement **context-sensitive programs** with central financial and technical support. Regular **data sharing and impact evaluations** can enhance accountability and guide timely course corrections.

Limitations

1. **Data Constraints**
    - NCRB underreports white-collar crimes and domestic violence.
    - Informal economy unemployment may be underestimated.
2. **Causality vs. Correlation**
    - While Granger tests suggest directionality, unobserved factors (e.g., drug trafficking networks) may play a role.
3. **Short Time Frame**
    - 8 years (2015–2022) limits analysis of long-term trends.

Results

The analysis revealed three key outcomes:

1. **Unemployment significantly increases crime rates** ($\beta = 15.2$, $p = 0.002$), supporting Economic Strain Theory. States with higher joblessness consistently reported elevated crime levels.
2. **Income inequality independently raises crime** ($\beta = 120.4$, $p = 0.018$), with high-Gini states like Delhi experiencing more crimes than equitable states like Kerala.
3. **The interaction of unemployment and inequality worsens crime** ($\beta = 8.6$, $p = 0.045$), demonstrating a compounding effect. The pandemic period (2020–2021) highlighted this vulnerability, as economic shocks led to unprecedented crime surges.

Regional disparities are evident, with states exceeding national averages in both unemployment (>4.46%) and inequality (Gini >0.445) reporting crime rates 20–25% higher than others. These findings underscore need for the targeted economic policies to disrupt the unemployment-inequality-crime nexus.

Conclusion and Future Work

Notably, the combination of high unemployment and inequality had an **amplifying effect on crime**, particularly in urbanised and economically polarised states like **Maharashtra and Delhi**. These dynamics were further intensified during the **COVID-19 pandemic**, when crime rates reached their peak in 2020, driven by widespread job losses and deepening income disparities during lockdown periods.

The study's conclusions are grounded in theoretical perspectives such as **Strain Theory** and **Relative Deprivation Theory**, which argue that perceived economic exclusion can lead to higher rates of deviant behaviour. Based on these insights, the study recommends a set of integrated policy measures, including expanded public employment programs, progressive fiscal reforms, and strengthened social protection schemes. These strategies are crucial to addressing the structural roots of crime and ensuring more equitable and secure socio-economic development in India

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