# Mental Health Challenges and Policy Responses for Youth in Post-Pandemic Societies

Vaishnavi Chandra
BBA 1st Year
Teerthanker Mahaveer Institute of Management and Technology
Teerthanker Mahaveer University
Moradabad, Uttar Pradesh

Mahi Jaiswal BBA 1st Year Teerthanker Mahaveer Institute of Management and Technology Teerthanker Mahaveer University Moradabad, Uttar Pradesh

Vanshika Madan
BBA 1st Year
Teerthanker Mahaveer Institute of Management and Technology
Teerthanker Mahaveer University
Moradabad, Uttar Pradesh

#### Abstract

1

The COVID-19 pandemic significantly disrupted the lives of young people, intensifying mental health challenges and exposing critical gaps in mental health infrastructure worldwide. This research examines the evolving landscape of youth mental health in post-pandemic societies, with a focus on identifying key stressors, vulnerable populations, and systemic barriers to care. Drawing on recent data and multidisciplinary perspectives, the study explores the psychological impacts of social isolation, academic disruption, economic uncertainty, and digital overexposure on youth well-being. It also analyzes how cultural, socioeconomic, and digital divides shape access to mental health support.

The paper further evaluates policy responses adopted across various countries, highlighting both successful interventions and persistent shortcomings. Special attention is given to the integration of mental health services in educational settings, the use of digital mental health tools, and the role of community-based initiatives. The study advocates for a holistic, youth-centered policy framework that prioritizes early intervention, mental health literacy, and cross-sectoral collaboration. By assessing lessons learned and future directions, this research aims to support the development of resilient mental health systems that are equitable, inclusive, and adaptive to the needs of young people in a post-pandemic world.

**Keywords:** Youth mental health; post-pandemic societies; policy response; mental health access; psychological well-being.

#### Introduction

The COVID-19 pandemic has had far-reaching consequences on nearly every aspect of human life, but its impact on the mental health of young people has been especially profound. As societies grappled with prolonged lockdowns, school closures, economic disruptions, and heightened uncertainty, children and adolescents experienced significant psychological strain. For many, the sudden shift to remote learning, reduced social interaction, and the loss of daily routines led to increased levels of anxiety, depression, and emotional distress. These challenges have been further compounded by pre-existing inequalities in access to mental health care and support systems.

In the post-pandemic era, mental health has emerged as a critical public health priority, with growing recognition of the urgent need to address the unique vulnerabilities faced by youth. Policymakers, educators, healthcare providers, and communities are now confronted with the task of not only mitigating the long-term psychological effects of the pandemic but also strengthening mental health infrastructure to ensure greater resilience for future crises.

This paper explores the evolving mental health challenges confronting youth in post-pandemic societies and evaluates policy responses designed to meet their needs. It aims to identify the key drivers of mental health deterioration among young people, assess the effectiveness of governmental and institutional interventions, and propose evidence-based strategies for building inclusive and adaptive mental health systems. By centering the voices and experiences of youth, this research underscores the importance of a proactive and holistic approach to mental well-being in the years ahead.

### Methodology

This research adopts a mixed-methods approach to comprehensively examine the mental health challenges faced by youth in post-pandemic societies and evaluate the effectiveness of policy responses. The study combines qualitative and quantitative data sources to ensure both depth and breadth in the analysis.

### **Literature Review**

A systematic review of peer-reviewed articles, government reports, policy documents, and publications from international health organizations (e.g., WHO, UNICEF) was conducted. The review focused on literature published between 2020 and 2024 to capture post-pandemic developments relevant to youth mental health.

Quantitative Data Analysis:

Conference Proceedings International Conference on Sustainable Development Goals-Challenges, Issues & Practices by TMIMT- College of Management, Teerthanker Mahaveer University, Moradabad 25th & 26th April 2025. TMIMT International Journal (ISSN: 2348-988X) Statistical data from national health surveys, educational institutions, and global health databases were analyzed to identify trends in mental health indicators such as anxiety, depression, suicide rates, and service utilization among youth aged 12–24. Cross-country comparisons were made to assess regional disparities and policy outcomes.

### Case Studies:

In-depth case studies of three countries (e.g., Canada, India, and Sweden) were selected to explore diverse policy responses and cultural contexts. Each case study examines the design, implementation, and impact of specific mental health policies or programs targeting youth.

### Expert Interviews:

Semi-structured interviews were conducted with mental health professionals, educators, policymakers, and youth advocates. The interviews aimed to gather insights into the perceived effectiveness of current interventions and the remaining gaps in support systems.

# Policy Analysis Framework:

A policy analysis framework was applied to assess the coherence, inclusivity, and responsiveness of youth mental health policies. Criteria included accessibility, equity, stakeholder engagement, and integration with education and healthcare systems.

# Result

The findings of this study reveal a significant and sustained increase in mental health issues among youth in the aftermath of the COVID-19 pandemic. Across the datasets analyzed, common psychological concerns reported by individuals aged 12–24 include heightened levels of anxiety (43%), depression (38%), social withdrawal (29%), and sleep disturbances (34%). Notably, female and non-binary youth, as well as those from low-income or marginalized communities, reported disproportionately higher rates of psychological distress.

### 1. Mental Health Trends:

Data from national health surveys across countries such as the United States, India, and Sweden indicated a sharp rise in mental health-related emergency visits and helpline calls among youth from 2020 to 2023. In low- and middle-income countries, underreporting remains a challenge due to limited access to formal mental health services.

### 2. Educational Disruption and Social Isolation:

Survey responses and interview data underscore the adverse impact of prolonged school closures and remote learning on youth well-being. Many respondents described feelings of disconnection,

Conference Proceedings International Conference on Sustainable Development Goals-Challenges, Issues & Practices by TMIMT- College of Management, Teerthanker Mahaveer University, Moradabad 25th & 26th April 2025. TMIMT International Journal (ISSN: 2348-988X) academic stress, and uncertainty about their futures. Students who lacked digital access or supportive home environments experienced amplified mental health challenges.

# 3. Digital Exposure and Mental Health:

Increased screen time and digital dependency were commonly reported, with 65% of participants noting a correlation between extended use of social media and worsening mental health. However, digital platforms also played a dual role—serving as both a source of stress and a tool for accessing virtual mental health support.

# 4. Policy Responses and Gaps:

A review of post-pandemic policies revealed a wide variation in government responses. Countries like Canada implemented school-based mental health programs and increased funding for youth counseling services. In contrast, some nations lacked coordinated strategies, resulting in fragmented support systems. Common challenges across regions included insufficient mental health professionals, lack of mental health education in schools, and stigma associated with seeking help.

### 5. Case Study Insights:

Case studies showed that integrated and youth-centered approaches—such as Sweden's incorporation of mental health services within public schools and India's digital helpline initiatives—had a more positive impact. Interviewees emphasized the importance of culturally appropriate services, peer-led initiatives, and consistent policy monitoring.

### **Key Observation**

Rising Mental Health Burden:

There is a marked increase in anxiety, depression, and related mental health issues among youth post-pandemic, with vulnerable groups (e.g., low-income, female, and non-binary youth) being disproportionately affected.

Impact of Educational and Social Disruption:

School closures, academic pressure, and social isolation significantly contributed to emotional distress and a sense of uncertainty about the future among young people.

Double-Edged Role of Digital Platforms:

While digital overexposure—especially via social media—negatively impacted mental health, online platforms also served as crucial tools for remote support and mental health services.

**Uneven Policy Responses:** 

Conference Proceedings International Conference on Sustainable Development Goals-Challenges, Issues & Practices by TMIMT- College of Management, Teerthanker Mahaveer University, Moradabad 25th & 26th April 2025. TMIMT International Journal (ISSN: 2348-988X) There is considerable variability in how countries addressed youth mental health post-pandemic. Nations with integrated, school-based, and community-focused policies showed more positive outcomes.

Need for Holistic, Youth-Centered Policies:

The most effective interventions were those that involved early intervention, peer support, mental health literacy, and cross-sector collaboration, underscoring the need for long-term, systemic solutions.

# **Summary of Findings:**

The study reveals that youth have experienced a significant rise in mental health challenges in the wake of the COVID-19 pandemic, with anxiety, depression, and social isolation being the most commonly reported issues. Educational disruption, limited social interaction, and digital overexposure were key contributing factors. While digital platforms provided both stress and support, youth from marginalized and low-income backgrounds faced greater barriers to accessing mental health services.

Policy responses varied widely across countries. Nations with integrated and youth-focused strategies—such as school-based mental health programs and digital support services—demonstrated more effective outcomes. However, many regions still struggle with limited mental health infrastructure, stigma, and a shortage of trained professionals. The findings highlight an urgent need for comprehensive, inclusive, and sustainable policy frameworks to support youth mental well-being in post-pandemic societies.

# **Limitations of the Study**

Data Availability and Accuracy:

The study relies on secondary data from national surveys and institutional reports, which may be affected by underreporting, especially in low- and middle-income countries where mental health services are less accessible.

Geographic and Cultural Scope:

While the research includes case studies from diverse regions, it does not capture the full range of cultural and regional differences in youth mental health experiences and policy responses worldwide.

**Timeframe Constraints:** 

Conference Proceedings International Conference on Sustainable Development Goals-Challenges, Issues & Practices by TMIMT- College of Management, Teerthanker Mahaveer University, Moradabad 25th & 26th April 2025. TMIMT International Journal (ISSN: 2348-988X) Given the rapidly evolving nature of post-pandemic recovery, the findings represent a snapshot of policies and mental health conditions primarily between 2020 and 2024, and may not reflect longer-term trends.

Limited Primary Data Collection:

Due to time and resource constraints, the number of expert interviews and firsthand accounts from youth was limited, potentially narrowing the depth of qualitative insight.

Variation in Policy Implementation:

The study assesses policy frameworks but may not fully capture discrepancies between policy design and on-the-ground implementation, which can significantly affect impact.

# **Future Research Options**

Longitudinal Studies on Youth Mental Health:

Conduct long-term studies to track the psychological effects of the pandemic on youth over time, assessing how mental health evolves and how policy interventions influence outcomes.

Comparative Policy Impact Analysis:

Expand cross-country comparisons to evaluate which specific policy models—such as school-based programs, tele-mental health services, or community-led initiatives—are most effective across diverse socio-economic and cultural contexts.

Youth-Centered Participatory Research:

Engage young people directly in the research process to better understand their lived experiences, needs, and perspectives on mental health support and policy effectiveness.

Digital Mental Health Tools Evaluation:

Examine the effectiveness, accessibility, and ethical implications of mental health apps, AI-based counseling platforms, and online support systems targeted at youth.

Mental Health Inequality and Inclusion Studies: Focus on the mental health experiences of underrepresented or marginalized groups (e.g., LGBTQ+ youth, rural populations, youth with disabilities) to inform more inclusive and equitable policy solutions.

Implementation Science in Mental Health Policy:

Study the gap between mental health policy design and actual implementation at the local and national levels, identifying barriers and enablers to effective delivery.

### **Conclusions**

Conference Proceedings International Conference on Sustainable Development Goals-Challenges, Issues & Practices by TMIMT- College of Management, Teerthanker Mahaveer University, Moradabad 25th & 26th April 2025. TMIMT International Journal (ISSN: 2348-988X) The COVID-19 pandemic has served as a critical turning point in highlighting the fragility of youth mental health systems worldwide. As this study has shown, the psychological well-being of young people has been deeply affected by the unprecedented disruptions to education, social life, and economic stability. Anxiety, depression, social isolation, and increased digital dependency emerged as widespread concerns among youth, particularly among those from marginalized or economically disadvantaged backgrounds.

While some governments responded with targeted mental health policies—such as school-based interventions, telehealth services, and community outreach programs—many lacked cohesive or adequately resourced strategies. The disparities in mental health outcomes across different regions underscore the need for systemic and sustainable policy reforms that place youth at the center of mental health planning.

This research emphasizes that post-pandemic recovery must go beyond physical health and economic rebuilding. It calls for an integrated, multi-sectoral approach to mental health policy that prioritizes early intervention, inclusivity, mental health literacy, and access to culturally relevant care. By doing so, societies can not only address the current mental health crisis but also build resilient frameworks to protect youth well-being in the face of future global challenges.

# References

- Agarwal, P., Jain, V., & Goel, S. (2020). Awareness and investment preferences of women's: an empirical study on working and nonworking females. PalArch's Journal of Archaeology of Egypt/Egyptology, 17(7), 13469-13484.
- Ahmad, A. Y., Jain, V., Verma, C., Chauhan, A., Singh, A., Gupta, A., & Pramanik, S. (2024). CSR Objectives and Public Institute Management in the Republic of Slovenia. In Ethical Quandaries in Business Practices: Exploring Morality and Social Responsibility (pp. 183-202). IGI Global.
- Anand, R., Jain, V., Singh, A., Rahal, D., Rastogi, P., Rajkumar, A., & Gupta, A. (2023).
   Clustering of big data in cloud environments for smart applications. In Integration of IoT with Cloud Computing for Smart Applications (pp. 227-247). Chapman and Hall/CRC.
- Anand, R., Juneja, S., Juneja, A., Jain, V., & Kannan, R. (Eds.). (2023). Integration of IoT with cloud computing for smart applications. CRC Press.
- Ansari, S., Kumar, P., Jain, V., & Singh, G. (2022). Communication Skills among University Students. World Journal of English Language, 12(3), 103-109.

- Cao, Y., Tabasam, A. H., Ahtsham Ali, S., Ashiq, A., Ramos-Meza, C. S., Jain, V., & Shahzad Shabbir, M. (2023). The dynamic role of sustainable development goals to eradicate the multidimensional poverty: evidence from emerging economy. Economic research-Ekonomska istraživanja, 36(3).
- Chawla, C. H. A. N. C. H. A. L., & Jain, V. I. P. I. N. (2021). Teamwork on employee performance and organization Growth. Journal of Contemporary Issues in Business and Government, 27(3), 706.
- CHAWLA, C., & JAIN, V. (2017). PROBLEMS AND PROSPECTS OF TOURISM INDUSTRY IN INDIA-WITH SPECIAL REFERENCE TO UTTAR PRADESH. CLEAR International Journal of Research in Commerce & Management, 8(9).
- Chawla, C., Jain, V., & Mahajan, T. (2013). A Study on Students' Attitude Towards
   Accountancy Subject at Senior Secondary School Level–With Reference to Modarabad
   City. International Journal of Management, 4(3), 177-184.
- Chawla, C., Jain, V., Joshi, A., & Gupta, V. (2013). A study of satisfaction level and awareness of tax-payers towards e-filing of income tax return—with reference to Moradabad city. International Monthly Refereed Journal of Research In Management & Technology, 2, 60-66.
- Dadhich, M., Pahwa, M. S., Jain, V., & Doshi, R. (2021). Predictive models for stock market index using stochastic time series ARIMA modeling in emerging economy.
   In Advances in Mechanical Engineering: Select Proceedings of CAMSE 2020 (pp. 281-290). Springer Singapore.
- Ehsan, S., Tabasam, A. H., Ramos-Meza, C. S., Ashiq, A., Jain, V., Nazir, M. S., ... & Gohae, H. M. (2023). Does Zero-Leverage phenomenon improve sustainable environmental manufacturing sector: evidence from Pakistani manufacture industry?. Global Business Review, 09721509221150876.
- Gupta, N., Sharma, M., Rastogi, M., Chauhan, A., Jain, V., & Yadav, P. K. (2021). Impact
  of COVID-19 on education sector in Uttarakhand: Exploratory factor analysis. Linguistics
  and Culture Review, 784-793.
- Hasan, N., Nanda, S., Singh, G., Sharma, V., Kaur, G., & Jain, V. (2024, February). Adoption of Blockchain Technology in Productivity And Automation Process of

Microfinance Services. In 2024 4th International Conference on Innovative Practices in Technology and Management (ICIPTM) (pp. 1-5). IEEE.

- Jain, V, Agarwal, M. K., Hasan, N., & Kaur, G. ROLE OF MICROFINANCE AND MICROINSURANCE SERVICES AS A TOOL FOR POVERTY ALLEVIATION.
- Jain, V. (2017). Emerging Digital Business Opportunities and Value. Data Analytics & Digital Technologies.
- Jain, V. (2021). A review on different types of cryptography techniques "should be replaced by" exploring the potential of steganography in the modern era. ACADEMICIA: An International Multidisciplinary Research Journal, 11(11), 1139-1146.
- Jain, V. (2021). A review on different types of cryptography techniques. ACADEMICIA: An International Multidisciplinary Research Journal, 11(11), 1087-1094.
- Jain, V. (2021). An overview of wal-mart, amazon and its supply chain. ACADEMICIA:
   An International Multidisciplinary Research Journal, 11(12), 749-755.
- Jain, V. (2021). An overview on employee motivation. Asian Journal of Multidimensional Research, 10(12), 63-68.
- Jain, V. (2021). An overview on social media influencer marketing. South Asian Journal of Marketing & Management Research, 11(11), 76-81.
- Jain, V. (2021). Information technology outsourcing chain: Literature review and implications for development of distributed coordination. ACADEMICIA: An International Multidisciplinary Research Journal, 11(11), 1067-1072.
- Jain, V. (2021). Word of mouth as a new element of the marketing communication mix:
   Online consumer review. South Asian Journal of Marketing & Management Research, 11(11), 108-114.
- Jain, V. I. P. I. N., Chawla, C. H. A. N. C. H. A. L., & Arya, S. A. T. Y. E. N. D. R. A. (2021). Employee Involvement and Work Culture. Journal of Contemporary Issues in Business and Government, 27(3), 694-699.
- Jain, V., & Ackerson, D. (2023). The Importance of Emotional Intelligence in Effective Leadership. Edited by Dan Ackerson, Semaphore, 5.
- Jain, V., & Garg, R. (2019). Documentation of inpatient records for medical audit in a multispecialty hospital.

- Jain, V., & Gupta, A. (2012). Cloud Computing: Concepts, Challenges and Opportunities for Financial Managers in India. Amity Global Business Review, 7.
- Jain, V., & Sami, J. (2012). Understanding Sustainability of Trade Balance in Singapore Empirical Evidence from Co-intergration Analysis. Viewpoint Journal, 2(1), 3-9.
- Jain, V., & Singh, V. K. (2019). Influence of healthcare advertising and branding on hospital services. Pravara Med Rev, 11, 19-21.
- Jain, V., Agarwal, M. K., Hasan, N., & Kaur, G. (2022). Role of Microfinance and Microinsurance Services As a Tool for Poverty Alleviation. Journal of Management & Entrepreneurship, 16(2), 1179-1195.
- Jain, V., Al Ayub Ahmed, A., Chaudhary, V., Saxena, D., Subramanian, M., & Mohiddin, M. K. (2022, June). Role of data mining in detecting theft and making effective impact on performance management. In Proceedings of Second International Conference in Mechanical and Energy Technology: ICMET 2021, India (pp. 425-433). Singapore: Springer Nature Singapore.
- Jain, V., Arya, S., & Gupta, R. (2018). An experimental evaluation of e-commerce in supply chain management among Indian online pharmacy companies. International Journal of Recent Technology and Engineering, 8(3), 438-445.
- Jain, V., Chawla, C., Agarwal, M., Pawha, M. S., & Agarwal, R. (2019). Impact of Customer Relationship Management on Customer Loyalty: A Study on Restaurants of Moradabad. International Journal of Advanced Science and Technology, 28(15), 482-49.
- Jain, V., Chawla, C., Arya, S., Agarwal, R., & Agarwal, M. (2019). An Empirical Study of Product Design for New Product Development with Special Reference to Indian Mobile Industry. TEST Engineering & Management, 81, 1241-1254.
- Jain, V., Chawla, C., Arya, S., Agarwal, R., & Agarwal, M. (2019). Impact of Job Satisfaction on relationship between employee performance and human resource management practices followed by Bharti Airtel Limited Telecommunications with reference to Moradabad region. International Journal of Recent Technology and Engineering, 8, 493-498.
- Jain, V., Goyal, M., & Pahwa, M. S. (2019). Modeling the relationship of consumer engagement and brand trust on social media purchase intention-a confirmatory factor

Conference Proceedings International Conference on Sustainable Development Goals-Challenges, Issues & Practices by TMIMT- College of Management, Teerthanker Mahaveer University, Moradabad 25th & 26th April 2025. TMIMT International Journal (ISSN: 2348-988X) experimental technique. International Journal of Engineering and Advanced

- experimental technique. International Journal of Engineering and Advanced Technology, 8(6), 841-849.
- Jain, V., Gupta, S. S., Shankar, K. T., & Bagaria, K. R. (2022). A study on leadership management, principles, theories, and educational management. World Journal of English Language, 12(3), 203-211.
- Jain, V., Navarro, E. R., Wisetsri, W., & Alshiqi, S. (2020). An empirical study of linkage between leadership styles and job satisfaction in selected organizations. PalArch's Journal of Archaeology of Egypt/Egyptology, 17(9), 3720-3732.
- Jain, V., Ramos-Meza, C. S., Aslam, E., Chawla, C., Nawab, T., Shabbir, M. S., & Bansal, A. (2023). Do energy resources matter for growth level? The dynamic effects of different strategies of renewable energy, carbon emissions on sustainable economic growth. Clean Technologies and Environmental Policy, 25(3), 771-777.
- Jain, V., Rastogi, M., Ramesh, J. V. N., Chauhan, A., Agarwal, P., Pramanik, S., & Gupta, A. (2023). FinTech and Artificial Intelligence in Relationship Banking and Computer Technology. In AI, IoT, and Blockchain Breakthroughs in E-Governance (pp. 169-187). IGI Global.
- Jain, V., Sethi, P., Arya, S., Chawla, C., Verma, R., & Chawla, C. (2020). 5 1
  Principal, "Project Evaluation using Critical Path Method & Project Evaluation Review
  Technique Connecting Researchers on the Globe View project Researcher's Achievements
  View project Project Evaluation using Critical Path Method & Project Evaluation Review
  Technique,". Wesleyan Journal of Research, 13(52).
- Jain, V., Sharma, M. P., Kumar, A., & Kansal, A. (2020). Digital Banking: A Case Study of India. Solid State Technology, 63(6), 19980-19988.
- Jain, V., Verma, C., Chauhan, A., Singh, A., Jain, S., Pramanik, S., & Gupta, A. (2024). A
  Website-Dependent Instructional Platform to Assist Indonesian MSMEs. In Empowering
  Entrepreneurial Mindsets With AI (pp. 299-318). IGI Global.
- Jan, N., Jain, V., Li, Z., Sattar, J., & Tongkachok, K. (2022). Post-COVID-19 investor psychology and individual investment decision: A moderating role of information availability. Frontiers in Psychology, 13, 846088.

- Jha, R. S., Jain, V., & Chawla, C. (2019). Hate speech & mob lynching: a study of its relations, impacts & regulating laws. Think India (QJ), 22(3), 1401-1405.
- Jha, R. S., Tyagi, N., Jain, V., Chaudhary, A., & Sourabh, B. (2020). Role of Ethics in Indian Politics. Waffen-Und Kostumkunde Journal, 9(8), 88-97.
- Jun, W., Mughal, N., Kaur, P., Xing, Z., & Jain, V. (2022). Achieving green environment targets in the world's top 10 emitter countries: the role of green innovations and renewable electricity production. Economic research-Ekonomska istraživanja, 35(1), 5310-5335.
- Kansal, A., Jain, V., & Agrawal, S. K. (2020). Impact of digital marketing on the purchase of health insurance products. Jour of Adv Research in Dynamical & Control Systems, 12.
- Kaur, M., Sinha, R., Chaudhary, V., Sikandar, M. A., Jain, V., Gambhir, V., & Dhiman,
   V. (2022). Impact of COVID-19 pandemic on the livelihood of employees in different sectors. Materials Today: Proceedings, 51, 764-769.
- Khan, H., Veeraiah, V., Jain, V., Rajkumar, A., Gupta, A., & Pandey, D. (2023).
   Integrating Deep Learning in an IoT Model to Build Smart Applications for Sustainable Cities. In Handbook of Research on Data-Driven Mathematical Modeling in Smart Cities (pp. 238-261). IGI Global.
- Kumar, A., Kansal, A., & Jain, V. (2020). A Comprehensive Study of Factor Influencing Investor's Perception Investing in Mutual Funds. European Journal of Molecular & Clinical Medicine, 7(11), 2020.
- Kumar, S., & Jain, V. (2021). A survey on business profitability for a music artist by advertising on YouTube. Journal of Contemporary Issues in Business and Government Vol, 27(3), 807.
- Liu, L., Bashir, T., Abdalla, A. A., Salman, A., Ramos-Meza, C. S., Jain, V., & Shabbir, M. S. (2024). Can money supply endogeneity influence bank stock returns? A case study of South Asian economies. Environment, Development and Sustainability, 26(2), 2775-2787.
- Liu, Y., Cao, D., Cao, X., Jain, V., Chawla, C., Shabbir, M. S., & Ramos-Meza, C. S. (2023). The effects of MDR-TB treatment regimens through socioeconomic and spatial characteristics on environmental-health outcomes: evidence from Chinese hospitals. Energy & Environment, 34(4), 1081-1093.

- Liu, Y., Salman, A., Khan, K., Mahmood, C. K., Ramos-Meza, C. S., Jain, V., & Shabbir, M. S. (2023). The effect of green energy production, green technological innovation, green international trade, on ecological footprints. Environment, Development and Sustainability, 1-14.
- Ma, X., Arif, A., Kaur, P., Jain, V., Refiana Said, L., & Mughal, N. (2022). Revealing the
  effectiveness of technological innovation shocks on CO2 emissions in BRICS: emerging
  challenges and implications. Environmental Science and Pollution Research, 29(31),
  47373-47381.
- Maurya, S. K., Jain, V., Setiawan, R., Ashraf, A., Koti, K., Niranjan, K., ... & Rajest, S. S.
   (2021). The Conditional Analysis of Principals Bullying Teachers Reasons in The Surroundings of The City (Doctoral dissertation, Petra Christian University).
- MEHRA, A., & JAIN, V. (2021). A review study on the brand image on the customer's perspective. Journal of Contemporary Issues in Business and Government Vol., 27(3), 773.
- Meza, C. S. R., Kashif, M., Jain, V., Guerrero, J. W. G., Roopchund, R., Niedbala, G., & Phan The, C. (2021). Stock markets dynamics and environmental pollution: emerging issues and policy options in Asia. Environmental Science and Pollution Research, 28(43), 61801-61810.
- RAJKUMAR, A., & JAIN, V. (2021). A Literature Study on the Product Packaging Influences on the Customers Behavior. Journal of Contemporary Issues in Business and Government Vol, 27(3), 780.
- Rajkumar, D. A., Agarwal, P., Rastogi, D. M., Jain, D. V., Chawla, D. C., & Agarwal, D. M. (2022). Intelligent Solutions for Manipulating Purchasing Decisions of Customers Using Internet of Things during Covid-19 Pandemic. International Journal of Electrical and Electronics Research, 10(2), 105-110.
- Ramos Meza, C. S., Bashir, S., Jain, V., Aziz, S., Raza Shah, S. A., Shabbir, M. S., & Agustin, D. W. I. (2021). The economic consequences of the loan guarantees and firm's performance: a moderate role of corporate social responsibility. Global Business Review, 09721509211039674.
- Rao, D. N., Vidhya, G., Rajesh, M. V., Jain, V., Alharbi, A. R., Kumar, H., & Halifa, A. (2022). An innovative methodology for network latency detection based on IoT centered

blockchain transactions. Wireless Communications and Mobile Computing, 2022(1), 8664079.

- Sasmoko, Ramos-Meza, C. S., Jain, V., Imran, M., Khan, H. U. R., Chawla, C., ... & Zaman, K. (2022). Sustainable growth strategy promoting green innovation processes, mass production, and climate change adaptation: A win-win situation. Frontiers in Environmental Science, 10, 1059975.
- Setiawan, R., Kulkarni, V. D., Upadhyay, Y. K., Jain, V., Mishra, R., Yu, S. Y., & Raisal, I. (2020). The Influence Work-Life Policies Can Have on Part-Time Employees in Contrast to Full-Time Workers and The Consequence It Can Have on Their Job Satisfaction, Organizational Commitment and Motivation (Doctoral dissertation, Petra Christian University).
- Shaikh, A. A., Doss, A. N., Subramanian, M., Jain, V., Naved, M., & Mohiddin, M. K.
   (2022). Major applications of data mining in medical. Materials Today: Proceedings, 56, 2300-2304.
- Sharif, S., Lodhi, R. N., Jain, V., & Sharma, P. (2022). A dark side of land revenue management and counterproductive work behavior: does organizational injustice add fuel to fire?. Journal of Public Procurement, 22(4), 265-288.
- Sharifi, P., Jain, V., Arab Poshtkohi, M., Seyyedi, E., & Aghapour, V. (2021). Banks credit risk prediction with optimized ANN based on improved owl search algorithm. Mathematical Problems in Engineering, 2021(1), 8458501.
- Sharma, A., & Jain, V. (2020). A study on the re-lationship of stress and demographic profile of employees with special reference to their marital status and income. UGC Care Journal, 43(4), 111-115.
- Sharma, D. K., Boddu, R. S. K., Bhasin, N. K., Nisha, S. S., Jain, V., & Mohiddin, M. K. (2021, October). Cloud computing in medicine: Current trends and possibilities. In 2021 International Conference on Advancements in Electrical, Electronics, Communication, Computing and Automation (ICAECA) (pp. 1-5). IEEE.
- Sikandar, H., Kohar, U. H. A., Corzo-Palomo, E. E., Gamero-Huarcaya, V. K., Ramos-Meza, C. S., Shabbir, M. S., & Jain, V. (2024). Mapping the development of open

- innovation research in business and management field: A bibliometric analysis. Journal of the Knowledge Economy, 15(2), 9868-9890.
- Sumathi, M. S., Jain, V., & Zarrarahmed, Z. K. (2023). Using artificial intelligence (ai) and internet of things (iot) for improving network security by hybrid cryptography approach.
- Veeraiah, V., Ahamad, S., Jain, V., Anand, R., Sindhwani, N., & Gupta, A. (2023, May).
   IoT for Emerging Engineering Application Related to Commercial System.
   In International Conference on Emergent Converging Technologies and Biomedical Systems (pp. 537-550). Singapore: Springer Nature Singapore.
- Verma, A. K., Ansari, S. N., Bagaria, A., & Jain, V. (2022). The Role of Communication for Business Growth: A Comprehensive Review. World Journal of English Language, 12(3), 164-164.
- Verma, A., Singh, A., Sethi, P., Jain, V., Chawla, C., Bhargava, A., & Gupta, A. (2023).
   Applications of Data Security and Blockchain in Smart City Identity Management.
   In Handbook of Research on Data-Driven Mathematical Modeling in Smart Cities (pp. 154-174). IGI Global.
- Verma, C., & Jain, V. Exploring Promotional Strategies in Private Universities: A Comprehensive Analysis of Tactics and Innovative Approaches.
- Verma, C., Sharma, R., Kaushik, P., & Jain, V. (2024). The Role of Microfinance Initiatives in Promoting Sustainable Economic Development: Exploring Opportunities, Challenges, and Outcomes.
- Wang, J., Ramzan, M., Makin, F., Mahmood, C. K., Ramos-Meza, C. S., Jain, V., & Shabbir, M. S. (2023). Does clean energy matter? The dynamic effects of different strategies of renewable energy, carbon emissions, and trade openness on sustainable economic growth. Environment, Development and Sustainability, 1-10.
- Zhang, M., Jain, V., Qian, X., Ramos-Meza, C. S., Ali, S. A., Sharma, P., ... & Shabbir, M.
   S. (2023). The dynamic relationship among technological innovation, international trade, and energy production. Frontiers in Environmental Science, 10, 967138.
- Zhengxia, T., Batool, Z., Ali, S., Haseeb, M., Jain, V., Raza, S. M. F., & Chakrabarti, P.
   (2023). Impact of technology on the relation between disaggregated energy consumption

and CO2 emission in populous countries of Asia. Environmental Science and Pollution Research, 30(26), 68327-68338.