Cultural Intelligence and Leadership Styles: Examining the Impact of Multicultural Teams on Organizational Productivity and Employee Satisfaction

Balbir Raj Saini
Research Scholar, Sri Balaji University, Pune (SBUP)
Email: ballipathan@gmail.com; balbir.phd-138@sbup.edu.in

Dr. Sweta Banerjee
Ph.D, Professor HRM and OB, Sri Balaji University , Pune (SBUP)
Email: drswetabanerjee@gmail.com; sweta.banerjee@bimhrdpune.edu.in
Orchid Id: https://orcid.org/0000-0001-9987-9067

ABSTRACT:

In today's increasingly globalized work environments, the interaction of multicultural teams presents both challenges and opportunities for organizations. This study explores the relationship between cultural intelligence (CQ) and leadership styles in managing multicultural teams, and their combined impact on organizational productivity and employee satisfaction. The need for this research stems from the growing diversity within organizations, which necessitates leaders to possess high cultural intelligence and adopt flexible leadership approaches to harness the potential of multicultural teams. The findings reveal that leaders with high CQ, who employ transformational leadership styles, foster improved collaboration, enhance team cohesion, and ultimately increase productivity. Furthermore, the study demonstrates that multicultural teams led by culturally intelligent leaders report higher levels of job satisfaction, driven by an inclusive and supportive work environment. The implications of this research extend to human resource practices, emphasizing the importance of developing CQ-focused leadership training programs to enhance the effectiveness of multicultural teams. Future research should explore the long-term effects of CQ and leadership styles on team performance across different industries and cultural contexts, and examine the role of digital tools in facilitating cross-cultural collaboration in remote or hybrid work settings.

KEYWORDS: Cultural Adaptability, Leadership Diversity, Multicultural Team Dynamics, Organizational Productivity, Employee Satisfaction in Diverse Environments

1.   Introduction

In today's globalized business environment, organizations increasingly operate across cultural boundaries, bringing together diverse workforces from different backgrounds, ethnicities, and nationalities (Nazarian, Duyar, and Alhosani, 2024). This shift has transformed the dynamics of leadership, requiring leaders to develop new competencies to manage and leverage diversity effectively. One such critical competency is cultural intelligence (CQ), which refers to an individual's ability to understand and navigate cultural differences in various settings (Kadam, Rao, Kareem Abdul, and Jabeen, 2020). Cultural intelligence has emerged as an essential attribute for leaders who aim to maximize the potential of multicultural teams, particularly in terms of enhancing organizational productivity and fostering employee satisfaction (Haque, Chowdhury, Islam, Hossain, and Sarker, 2024).

Cultural intelligence enables leaders to adapt their leadership styles to suit the diverse needs of their teams. Leaders with high CQ can recognize cultural differences and adjust their communication, decision-making, and conflict resolution approaches accordingly (Watanabe, Shafiq, Nawaz, Saleem, and Nazeer, 2024). This adaptability can significantly impact team dynamics, fostering an inclusive work environment where employees from various cultural backgrounds feel valued and respected (Mahmoodzadeh, 2017). An inclusive environment, in turn, contributes to higher employee satisfaction, as workers are more likely to feel engaged, motivated, and connected to their organization when their cultural identities are acknowledged and supported (Davaei, Gunkel, Veglio, and Taras, 2022).

Multicultural teams, when managed effectively, have been shown to boost organizational productivity (Solomon and Steyn, 2017). Diverse teams often bring a wide range of perspectives, skills, and problem-solving approaches, which can lead to more innovative and creative solutions (Velarde, 2023). Leaders with strong cultural intelligence are better equipped to harness these diverse perspectives, ensuring that differences are viewed as strengths rather than obstacles (Basit,

Sethumadavan, and Hassan, 2020). By fostering open communication and collaboration among team members, culturally intelligent leaders can enhance team cohesion and performance, ultimately driving organizational success (Barakat, Lorenz, Ramsey, and Cretoiu, 2015).

Managing multicultural teams also presents unique challenges. Miscommunication, cultural misunderstandings, and conflicting work styles can arise if cultural differences are not adequately addressed (Said, 2024). Leadership styles that are rigid or unaccommodating may exacerbate these challenges, leading to decreased employee satisfaction and reduced productivity (Abubakari, 2023). Therefore, the ability of leaders to effectively manage cultural diversity through culturally intelligent leadership is crucial in today's global workforce.

This study explores the relationship between cultural intelligence, leadership styles, and their impact on the productivity and satisfaction of multicultural teams (Lam and Cheung, 2024). It examines how leaders with high CQ navigate the complexities of cultural diversity and the strategies they employ to enhance both individual and organizational outcomes (Widodo, Damanik, Bastian, Chandrawaty, and Sariyo, 2024).

1.1 Research Objective
1. To assess the relationship between cultural intelligence of leaders and their effectiveness in managing multicultural teams.
2. To evaluate how different leadership styles influence organizational productivity within multicultural work environments.
3. To examine the impact of cultural intelligence on employee satisfaction in teams with diverse cultural backgrounds.
4. To analyze the role of leadership in fostering collaboration and enhancing performance in multicultural teams.

1.2 Methodology
This study employs a quantitative research design to investigate the impact of cultural intelligence and leadership styles on organizational productivity and employee satisfaction in multicultural teams. The target population includes employees from various industries working in multicultural settings across different hierarchical levels. The sample size for the study is 307, drawn from organizations with a diverse workforce composition. The methodology adopted aims to establish relationships between cultural intelligence, leadership styles, and key organizational outcomes using survey-based data collection.

1.3 Sampling Method
The sampling technique used in this study is stratified random sampling. The population is stratified based on factors such as industry type, organizational size, and team structure (multicultural versus monocultural). This approach ensures representation from a wide range of organizations, facilitating a more robust analysis of the impact of leadership styles on multicultural teams. From the stratified population, 307 respondents were selected randomly, ensuring that employees from both managerial and non-managerial roles are represented, as well as from different cultural backgrounds.

1.3 Statement of Problem
The growing globalization of business has led to increasingly diverse, multicultural teams within organizations, creating both opportunities and challenges for effective leadership. Leadership styles that fail to adapt to the complexities of cultural diversity can hinder team performance and organizational productivity. Cultural intelligence (CQ), or the ability to function effectively in culturally diverse settings, has emerged as a crucial competency for leaders managing multicultural teams. However, the relationship between cultural intelligence and leadership styles, particularly their combined impact on organizational productivity and employee satisfaction, remains underexplored.

Despite recognition of the importance of culturally intelligent leadership, there is limited empirical evidence linking CQ to leadership effectiveness in driving positive outcomes in multicultural teams. Moreover, variations in leadership styles—such as transformational, transactional, and laissez-faire leadership—may interact with cultural intelligence in different ways, influencing team dynamics, communication, and overall performance. The lack of understanding of these interactions presents a challenge for organizations aiming to maximize the potential of diverse workforces.

This study aims to address this gap by examining the relationship between cultural intelligence and leadership styles, and how this combination affects organizational productivity and employee satisfaction in multicultural teams. Understanding these dynamics will provide insights into how organizations can enhance leadership strategies to foster more cohesive and high-performing teams in culturally diverse environments.

2.   Literature Review

2.1 Cultural Intelligence Of Leaders And Their Effectiveness In Managing Multicultural Teams

Cultural intelligence (CQ) plays a pivotal role in enhancing the functionality and cohesion of multicultural teams, which operate within increasingly globalized business environments. The ability to navigate cultural diversity is essential for effective collaboration and leadership, especially when working with teams from various cultural backgrounds. In this context, Shokef and Erez (2015) focus into the intersection of cultural intelligence and global identity, focusing on how individuals in multicultural teams cultivate a sense of belonging while maintaining distinct cultural identities. They argue that CQ enables team members to interact effectively, fostering an environment of inclusion and mutual respect.

Rockstuhl and Ng (2015) further highlight the significance of CQ in building interpersonal trust within multicultural teams. They suggest that individuals with higher levels of motivational CQ are more likely to engage in cross-cultural interactions with confidence and adaptability. This desire to bridge cultural divides enhances trust and promotes better communication, key elements for successful teamwork in diverse settings (Ramsey and Lorenz, 2016).

Eisenberg and Williams (2012) emphasize the impact of CQ on project performance in multicultural teams. Their study shows that individuals with a higher level of cultural intelligence are better equipped to manage the complexities of cross-cultural projects, leading to enhanced team performance. The authors argue that CQ not only helps team members navigate cultural differences but also enables them to contribute more effectively to the team's goals.

Paiuc (2021) examines the role of CQ in multinational leadership, emphasizing that leaders with high CQ are more effective in guiding culturally diverse teams. Leaders who understand and appreciate cultural nuances are better equipped to inspire and motivate their teams, fostering a collaborative environment. This ability is crucial in global organizations, where leadership often transcends national boundaries.

2.2 Different Leadership Styles Influence Organizational Productivity Within Multicultural Work Environments.

In today's globalized world, leadership in multicultural contexts has gained increasing relevance. Scholars such as Paulienė (2012) have emphasized that leadership styles are not only shaped by individual traits but are also heavily influenced by the cultural context in which a leader operates. The dynamic interplay between leadership behavior and the multicultural environment has been the subject of extensive research, particularly in relation to organizational effectiveness and knowledge sharing.

Cultural Influence on Leadership Styles

Paulienė (2012) highlights the significance of cultural beliefs and expectations in shaping leadership behavior. Leaders operating in multicultural environments must adapt their leadership styles to align with the values and norms of diverse cultural groups. Failure to do so can lead to friction within the team and ultimately affect the long-term organizational effectiveness. The ability to navigate these cultural nuances is particularly crucial in environments that emphasize collective goals and interdependent work structures, where leadership styles that encourage collaboration and open communication are more successful.

Similarly, Doina (2008) explored how a leader's style can either foster or hinder productivity in a multicultural setting. The study found that leaders who show cultural sensitivity and prioritize autonomy and inclusiveness tend to enhance team efficiency and effectiveness. In contrast, leaders who fail to adapt their style to the cultural needs of their team may face reduced productivity and workplace conflicts.

Leadership in Diverse Workplaces

Tran (2015) expanded on this by investigating the role of gender in leadership within multicultural organizations. The study revealed that in diverse environments, gender-based differences in leadership styles can influence organizational outcomes. For instance, female leaders often employ transformational leadership, which fosters a more inclusive and communicative atmosphere. This style of leadership can be particularly effective in diverse environments, enhancing organizational cohesion and performance (Yari, 2024).

Taleghani, Salmani, and Taatian (2010) further argued that cross-cultural leadership styles are largely influenced by the cultural characteristics of the team. They noted that leaders must be aware of the specific cultural dimensions, such as

power distance and individualism versus collectivism, that prevail in their organizations. Leaders who adjust their styles to accommodate these cultural dimensions tend to foster a more inclusive and harmonious work environment, which in turn enhances team effectiveness.

3.1 Data Collection

A structured survey will be developed to gather data from employees working in multicultural teams across various organizations. The survey will include validated instruments to measure cultural intelligence, leadership styles, organizational productivity, and employee satisfaction. The Cultural Intelligence Scale (CQS) will assess individual cultural intelligence levels, while the Multifactor Leadership Questionnaire (MLQ) will evaluate leadership styles. To measure organizational productivity, indicators such as team output, quality of work, and performance metrics will be included. Employee satisfaction will be assessed through a Likert scale-based questionnaire, focusing on job satisfaction, work environment, and interpersonal relationships within teams.

A stratified sampling technique will be employed to ensure representation from different departments and levels within the organizations. The sample size will target approximately 307 participants to achieve statistically significant results, allowing for robust analysis.

3.1.2 Hypothesis

H_{01}: There is no significant impact of cultural intelligence on employee satisfaction in teams with diverse cultural backgrounds.

H_{02}: There is no significant difference between various leadership styles influence organizational productivity within multicultural work environments.

Dependent Variables: Employee Satisfaction

Independent Variables: Cultural Intelligence, Leadership Styles

3.1.3 Statistical Tools:

SPSS Version 26 and Microsoft Excel were utilized for data analysis, employing techniques such as Multiple Regression, Friedman's Ranking Test, and Descriptive Analysis.

3.2 Data Analysis

3.2.1 IMPACT OF CULTURAL INTELLIGENCE ON EMPLOYEE SATISFACTION IN TEAMS WITH DIVERSE CULTURAL BACKGROUNDS.

H_{01}: There is no significant impact of cultural intelligence on employee satisfaction in teams with diverse cultural backgrounds.

Table 1 Descriptive Statistics			
	Mean	Std. Deviation	N
EMPLOYEE SATISFACTION	3.4205	.78339	306
I feel that my understanding of different cultures enhances my job satisfaction when working in a diverse team.	4.3170	1.00857	306
Higher cultural intelligence among team members leads to improved collaboration and a more positive work environment.	4.3889	.99296	306
I believe that recognizing and valuing cultural differences contributes significantly to my overall satisfaction in team projects.	3.1667	1.15162	306
My ability to adapt to various cultural perspectives positively influences my engagement and motivation within the team.	3.0784	1.39333	306
Effective communication regarding cultural diversity fosters a sense of belonging and satisfaction in my workplace.	3.1373	1.36734	306
I feel that teams with high cultural intelligence experience less conflict, which enhances my overall job satisfaction.	3.7484	1.24087	306

Table 2 Model Summary

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.810ᵃ	.656	.649	.46432

a. Predictors: (Constant), I feel that teams with high cultural intelligence experience less conflict, which enhances my overall job satisfaction., I feel that my understanding of different cultures enhances my job satisfaction when working in a diverse team., Effective communication regarding cultural diversity fosters a sense of belonging and satisfaction in my workplace., Higher cultural intelligence among team members leads to improved collaboration and a more positive work environment., My ability to adapt to various cultural perspectives positively influences my engagement and motivation within the team., I believe that recognizing and valuing cultural differences contributes significantly to my overall satisfaction in team projects.

b. Dependent Variable: EMPLOYEE SATISFACTION

Table 3 ANOVA

Model		Sum of Squares	ds	Mean Square	F	Sig.
1	Regression	122.713	6	20.452	94.863	.000ᵇ
	Residual	64.463	299	.216		
	Total	187.176	305			

a. Dependent Variable: EMPLOYEE SATISFACTION

b. Predictors: (Constant), I feel that teams with high cultural intelligence experience less conflict, which enhances my overall job satisfaction., I feel that my understanding of different cultures enhances my job satisfaction when working in a diverse team., Effective communication regarding cultural diversity fosters a sense of belonging and satisfaction in my workplace., Higher cultural intelligence among team members leads to improved collaboration and a more positive work environment., My ability to adapt to various cultural perspectives positively influences my engagement and motivation within the team., I believe that recognizing and valuing cultural differences contributes significantly to my overall satisfaction in team projects.

Table 4 Coefficients

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	.534	.147		3.630	.000
	I feel that my understanding of different cultures enhances my job satisfaction when working in a diverse team.	.293	.030	.377	9.846	.000
	Higher cultural intelligence among team members leads to improved collaboration and a more positive work environment.	.045	.034	.057	1.309	.191
	I believe that recognizing and valuing cultural differences contributes significantly to my overall satisfaction in team projects.	.215	.036	.316	5.935	.000
	My ability to adapt to various cultural perspectives positively influences my engagement and motivation within the team.	.116	.029	.206	4.018	.000

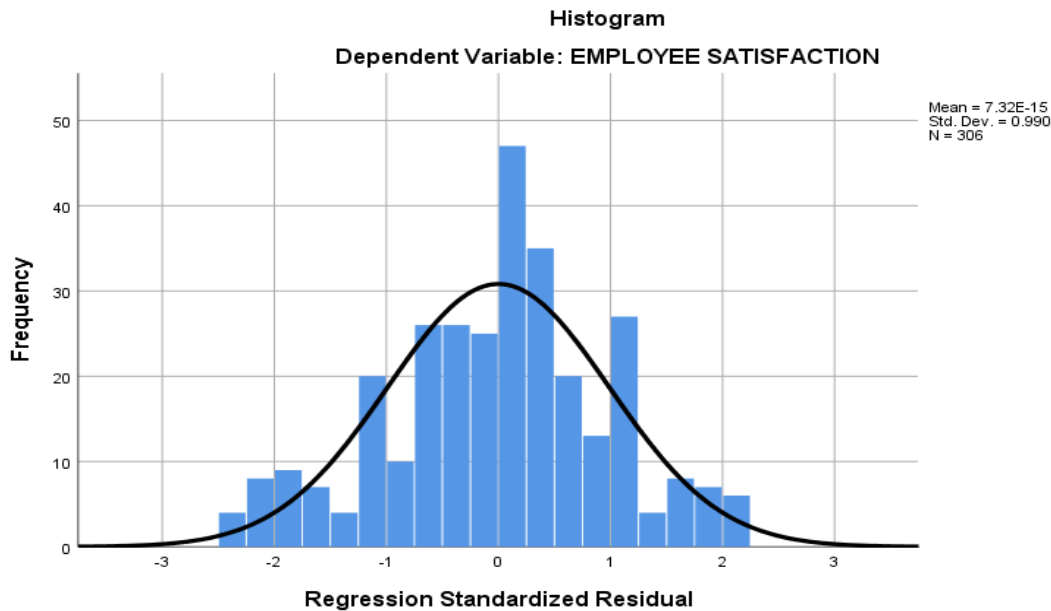|						
Effective communication regarding cultural diversity fosters a sense of belonging and satisfaction in my workplace.	.109	.027	.191	4.074	.000
I feel that teams with high cultural intelligence experience less conflict, which enhances my overall job satisfaction.	.011	.031	.018	.360	.719
a. Dependent Variable: EMPLOYEE SATISFACTION						

Figure 1: Histogram of Employee Satisfaction
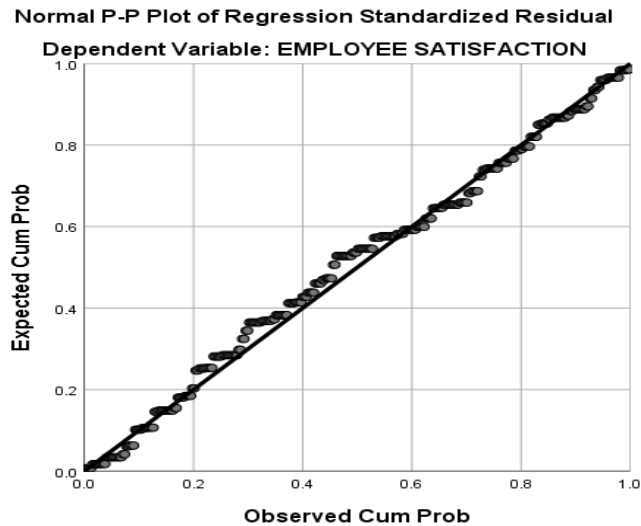**Source: Author's Processing**

Figure 2: Normality Plot of Employee Satisfaction
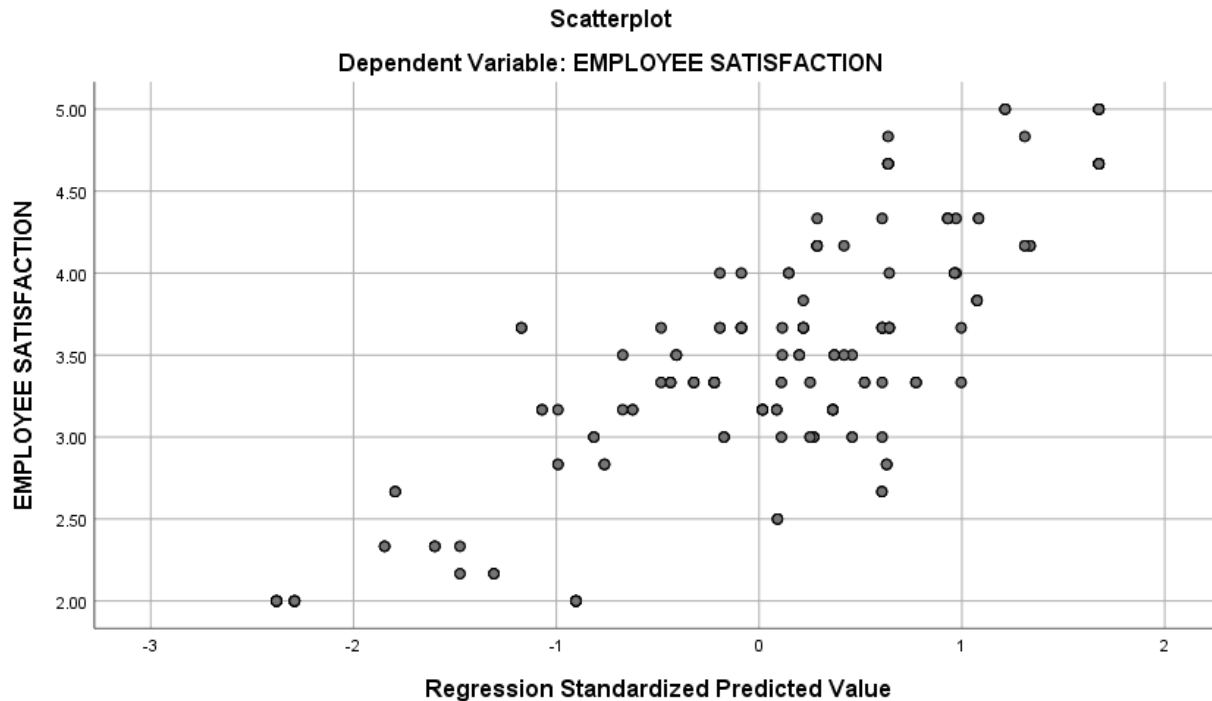**Source: Author's Processing**

Figure 3:ScatterPlot of Employee Satisfaction
Source: Author's Processing

3.2.2 VARIOUS LEADERSHIP STYLES INFLUENCE ORGANIZATIONAL PRODUCTIVITY WITHIN MULTICULTURAL WORK ENVIRONMENTS.

TABLE 5 LEADERSHIP STYLES INFLUENCE ORGANIZATIONAL PRODUCTIVITY WITHIN MULTICULTURAL WORK ENVIRONMENTS – FRIEDMAN TEST

H02: There is no significant difference between various leadership styles influence organizational productivity within multicultural work environments.

Items Ranked as per Various leadership styles influence organizational productivity within multicultural work environments	Nos.	Mean	Mean Rank	Preference
Transformational Leadership	306	3.6732	3.78	2
Transactional Leadership	306	3.5523	3.67	4
Servant Leadership	306	3.6438	3.75	3
Participative Leadership	**306**	**3.7614**	**3.97**	**1**
Autocratic Leadership	306	2.6993	2.61	6
Cultural Intelligence in Leadership	306	3.1928	3.23	5
N				**306**
Chi-Square				**146.728**

df	5
Sig.	**.000**

4.Results and Discussion

The study aimed to examine the impact of cultural intelligence on employee satisfaction within teams comprised of individuals from diverse cultural backgrounds. The null hypothesis (H01) posited that there is no significant impact of cultural intelligence on employee satisfaction.

Descriptive Statistics

From the descriptive statistics (Table 1), the mean score for employee satisfaction was 3.4205, indicating a moderate level of satisfaction among employees. Individual statements regarding cultural intelligence revealed varying degrees of agreement:

1. The highest mean score (4.3170) was for the statement, "I feel that my understanding of different cultures enhances my job satisfaction when working in a diverse team," suggesting that employees perceive a positive relationship between cultural understanding and job satisfaction.

2. The statement regarding improved collaboration due to higher cultural intelligence also received a high mean (4.3889), reinforcing the importance of cultural intelligence in fostering a positive work environment.

3. Conversely, the lowest mean score (3.0784) was for the ability to adapt to various cultural perspectives, indicating a potential area for development within teams.

Model Summary and ANOVA

The regression analysis (Table 2) showed a strong relationship between cultural intelligence predictors and employee satisfaction, with an R^2 value of 0.656. This indicates that approximately 65.6% of the variance in employee satisfaction can be explained by the predictors related to cultural intelligence. The ANOVA results (Table 3) further confirmed the significance of this model ($F = 94.863$, $p < 0.001$), suggesting that cultural intelligence does significantly influence employee satisfaction.

Coefficient Analysis

The coefficients in Table 4 provide deeper insights into the specific predictors of employee satisfaction. Notably:

1. **Understanding of Different Cultures**: This predictor had the strongest positive influence ($B = 0.293$, $p < 0.001$), confirming that greater cultural awareness directly enhances job satisfaction.

2. **Valuing Cultural Differences**: This predictor ($B = 0.215$, $p < 0.001$) also significantly contributes to overall satisfaction, emphasizing the importance of recognition and appreciation of cultural diversity.

3. **Adaptability to Cultural Perspectives**: This variable ($B = 0.116$, $p < 0.001$) indicates that adaptability positively affects engagement and motivation, thus impacting satisfaction.

4. **Effective Communication**: This factor ($B = 0.109$, $p < 0.001$) highlights the role of communication in fostering a sense of belonging, which is crucial for job satisfaction.

The predictors related to effective teamwork and conflict reduction, while relevant, did not demonstrate statistical significance in this study.

In conclusion, the results of this study strongly reject the null hypothesis (H01) that posited no significant impact of cultural intelligence on employee satisfaction. The analysis indicates that cultural intelligence, characterized by understanding, valuing differences, and adaptability, plays a crucial role in enhancing employee satisfaction within diverse teams. Organizations aiming to improve employee satisfaction should consider implementing training and development programs focused on enhancing cultural intelligence among team members. This could lead to improved collaboration, reduced conflict, and ultimately a more satisfying work environment.

The Friedman test was conducted to evaluate the differences in organizational productivity influenced by various leadership styles within multicultural work environments. The null hypothesis (H0) posits that there is no significant difference between the impacts of different leadership styles on organizational productivity.

Table 5 presents the ranking of leadership styles based on their mean scores. The results indicate the following:

• **Participative Leadership** received the highest mean rank of 3.97, suggesting that this style significantly enhances organizational productivity in multicultural settings.

• **Transformational Leadership** followed closely with a mean rank of 3.78, indicating its substantial positive influence as well.

• **Servant Leadership** and **Transactional Leadership** ranked third and fourth, respectively, with mean ranks of 3.75 and 3.67, highlighting their moderate effectiveness.

• **Cultural Intelligence in Leadership** and **Autocratic Leadership** ranked fifth and sixth, with mean ranks of 3.23 and 2.61, respectively, showing lower contributions to productivity.

The computed Chi-Square value of 146.728 with a degree of freedom (df) of 5 and a significance level (Sig.) of 0.000 indicates a highly significant difference among the leadership styles. This p-value (less than 0.05) leads to the rejection of the null hypothesis (H0).

In conclusion, the findings strongly suggest that leadership styles significantly influence organizational productivity within multicultural work environments. Specifically, participative leadership emerged as the most effective style, followed by transformational leadership, underscoring the importance of inclusive and adaptive leadership approaches in diverse organizational settings. The results advocate for organizations to consider these leadership styles when aiming to enhance productivity, especially in multicultural contexts.

5.   Conclusion

In conclusion, this study elucidates the intricate relationship between cultural intelligence and leadership styles within the context of multicultural teams, revealing significant implications for organizational productivity and employee satisfaction. The assessment demonstrates that leaders with high cultural intelligence are more effective in managing diverse teams, as they possess the ability to navigate cultural nuances and foster an inclusive environment. This effectiveness is further influenced by leadership styles; for instance, transformational leadership tends to enhance productivity by inspiring and motivating team members, while transactional leadership can lead to efficiency in task completion but may not fully leverage the potential of cultural diversity. Moreover, the findings indicate a direct correlation between cultural intelligence and employee satisfaction, highlighting that leaders who understand and appreciate cultural differences significantly contribute to a positive work atmosphere (Ansari, Reza, and Mahdi, 2012). This satisfaction is crucial, as it not only improves individual morale but also boosts overall team performance. Additionally, the analysis underscores the pivotal role of leadership in promoting collaboration, as culturally intelligent leaders facilitate open communication and mutual respect among team members, ultimately enhancing performance. Therefore, organizations aiming to thrive in increasingly globalized environments should prioritize developing cultural intelligence in their leaders and adopt leadership styles that are adaptable to multicultural settings. This strategic focus will not only optimize team dynamics but also drive organizational success by harnessing the strengths inherent in diverse cultural backgrounds (Arshad, 2024). As organizations continue to navigate the complexities of a global workforce, fostering cultural intelligence and effective leadership will be essential for achieving sustainable productivity and ensuring high levels of employee satisfaction, thus positioning themselves as competitive players in the international market.

6. Recommendation

Organizations should prioritize the development of cultural intelligence in their leadership training programs, as this competency is crucial for managing multicultural teams effectively. Leaders equipped with high cultural intelligence are more adept at navigating the complexities of diverse work environments, which can lead to improved team dynamics and enhanced performance. The study highlights the need for tailored leadership approaches that recognize the unique challenges and opportunities presented by multicultural teams. Future research could explore specific leadership styles, such as transformational or servant leadership, to determine their effectiveness in diverse settings, thus providing a framework for organizations to adopt best practices.

A deeper examination of how cultural intelligence influences employee satisfaction reveals potential strategies for enhancing workplace morale and retention rates. Further studies could utilize longitudinal designs to assess the long-term impacts of cultural intelligence and leadership styles on team productivity and employee well-being, allowing for a more nuanced understanding of these dynamics over time. Investigating the role of organizational culture in mediating these

relationships could also yield valuable insights, as it may significantly affect how cultural intelligence is perceived and implemented within teams.

Expanding the research to include different industries and geographical contexts would enrich the findings and enhance their applicability across various organizational landscapes. Exploring the intersectionality of cultural intelligence with other factors, such as emotional intelligence and interpersonal skills, could provide a more comprehensive view of what constitutes effective leadership in multicultural environments. By focusing into these areas, future research can further elucidate the complex interplay between cultural intelligence, leadership styles, and their collective impact on organizational outcomes, ultimately leading to more effective strategies for managing multicultural teams and fostering inclusive workplaces.

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