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Virtual Connectivity: Why Do Workers Stay Engaged from Home During Pandemic?

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ABSTRACT

Received: 30 Dec 2024 Revised: 05 Feb 2025 Accepted: 25 Feb 2025 Particularly in the field of information technology, the COVID-19 epidemic fundamentally altered work paradigms. Originally viewed as a temporary fix, the mandated move to remote work has evolved into a widespread and, most of all, desired method of operation for IT professionals. But this general acceptance of remote work has introduced significant challenges for businesses, most notably with relation to staff engagement and maintenance. Particularly dependent on physical proximity and face-to--face interactions, the traditional approaches for promoting organisational culture, team cohesion, and workplace camaraderie were made essentially ineffective. Companies consequently had a huge need to change their strategies to ensure that, in a virtual environment, their IT workers stayed motivated, connected, and effective. Initiated to address this significant problem, this study project aimed to identify the major determinant of employee involvement in the scope of remote working. Primary data was acquired utilising a structured survey tool adopting a quantitative research approach in order to attain this aim. With a 400-person large sample size, we sought to ensure the generalizability and statistical validity of the results. Selected with great care from a sizable pool of employees of several Indian IT businesses based in Delhi/NCR, the participants were the geographical focus selected results from the area's status as a significant hub for IT companies and its great impact on the Indian IT sector.

The findings of this study should provide IT companies striving to increase employee engagement in a remote work environment with useful information, therefore enabling sensible approaches for managing a distributed workforce

Key Words: Employee Engagement, Work from Home, IT Industry, work life balance, team work, leadership

INTRODUCTION

Particularly in view of the COVID-19 outbreak, the global scene of work has transformed fundamentally. Although remote work has been present for some years, its swift and widespread acceptance has become defining characteristic of modern business life. For businesses, this shift has presented both possibilities and challenges; one of the most crucial problems now is keeping and motivating staff participation in virtual surroundings. Mostly depending on physical presence, in-person meetings, and the obvious aspects of company culture, engagement strategies have been however, the shift to remote work makes a basic review of these techniques absolutely essential. Employee engagement—that is, the emotional dedication one person has to their business and goals defines productivity, creativity, and general organisational success most of all. Maintaining this dedication becomes increasingly difficult within the framework of remote work, though. Lack of physical proximity could cause isolation, bad communication, and a worse sense of belonging. Companies who want to guarantee that their workforce stays motivated, efficient, and involved must thus know the specific factors influencing employee engagement in virtual environments. This study looks at and defines the aspects most affecting employee engagement in remote working environments, therefore meeting this important demand. This study attempts to clarify the variables either greatly add to or eliminate from involvement in virtual workplaces by means of analysis of the experiences of remote workers, especially within the IT sector. Companies striving to create successful plans for involving and controlling their remote workers depend on an awareness of these factors. The results of this study will throw important light on the particular needs and challenges experienced by remote workers as well as

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offer doable recommendations for creating a vivid and interesting virtual office. In the end, this study seeks to add to the growing corpus of knowledge on remote work by giving companies a structure to maximise their policies for remote work and enable a highly involved and effective workforce in the changing scene of employment.

REVIEW OF LITERATURE

Over the past ten years, the word "engagement" has become even more significant in the field of information technology. It has emerged as a success element for companies and is now a crucial component in deciding the corporate strategy in the very competitive market. Apart from having a major influence on employee dedication, productivity, loyalty, and retention, engagement is a fundamental element of shareholder value, consumer happiness, and corporate reputation (Andrew and Sofian, 2012). Engagement, as used in "individual's involvement and satisfaction with as well as enthusiasm for work" (Harter, Schmidt, & Hayes, 2002, p. 269), is Kahn (1990) describes employee engagement as "the harnessing of organisation members' selves to their work roles; in engagement, people employ and express themselves physically, cognitively, and emotionally during role performances." Leaders of companies all throughout the world should give employee engagement top priority. Competitive companies cannot replicate or copy people, thus they are the only element absent from their operations. If kept under control and used correctly, it is regarded as the most precious resource. Consequently, employee engagement is regarded as the most important element determining the strength of a company. Though it was mostly seen as a practical consulting concern until 1990s, the word employee engagement has roots in scholarly study. Though since then, the idea has drawn more interest from academics in fields such business and management, psychology and organisational behaviour (Xu and Thomas, 2011), it is equal to that there is a dearth of critical scholarly work on the subject (Kular et al. 2008). Defining engagement and outlining its extent is a challenging and thorough endeavour. Katz and Kahn (1966) underlined the overall need of employees interacting with their companies and their works. Though their work does not specifically refer to "employee engagement," it recognises the requirement of engagement and its correlation with organisational effectiveness. Both Goffman and Kahn note that people do not equally devote themselves to every position. "A positive, fulfilling, work-related state of mind that is characterised by vigour, dedication and absorption," Schaufeli et al. (2002) describe engagement. The results of May et al. (2004) on the Kahn's model confirmed that engagement is favourably correlated with psychological qualities of meaningfulness, safety and availability. Employee engagement, according to 2003's International Survey Research, is the process by which a company increases the dedication and involvement of its human resources to get better corporate results. According to the International Survey Research, employee engagement combines cognitive, behavioural, and emotive commitment to his or her company.

NEED AND SCOPE OF THE STUDY

The COVID-19 epidemic caused a fast and extensive change to remote work, thus it is essential to know and solve the particular difficulties to employee engagement in this new environment. To keep output high and create a friendly virtual workplace, companies desperately need evidence-based solutions. Remote employment has different challenges, including feelings of isolation and unclear work-life boundaries, which need for targeted research to help to address these problems. This paper seeks to offer data-driven insights to improve remote employee well-being and general organisational success. This study attempts to close a knowledge vacuum for pandemic-specific remote engagement. The extent of this research is restricted to Delhi/NCR area IT experts during epidemic height. It looks at how important work-life balance, technology, and communication are to remote employee engagement. By means of quantitative surveys for data collecting and analysis, the results are meant to provide useful direction for IT companies trying to maximise their remote work policies. "Remote work" for the purposes of this study is full-time job from home during the designated epidemic period.

OBJECTIVES OF THE STUDY

• To investigate and define the elements most influencing employee engagement in remote working environments.

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METHODOLOGY

Main information was obtained using a methodical survey instrument applying a quantitative research strategy to reach this goal. Having a 400-person sizable sample size, we aimed at guaranteeing the conclusions' generalizability and statistical validity. Selected with considerable attention from a large pool of Indian IT staff members companies headquartered in Delhi/NCR, the participants were the geographic focus chosen outcomes from the area's reputation as a major centre for IT businesses so has a significant influence on the Indian IT market. Factor analysis is a statistical method used in view of the complexity and different character of involvement. Factor analysis reveals underlying dimensions linking numerous complex variables, hence simplifying them. These basic elements will help us to comprehend the inherent character of any situation and how it affects the involvement of distant workers. Often called interdependence analysis, this approach divides variables based on their degrees of intercorrelation. This approach will assist to define the main trends motivating participation in virtual work environments, so providing a more realistic and observant assessment of their primary traits.

RESULTS AND DISCUSSION

Table 1 representing KMO AND BARTLETT'S TEST

| KMO and Bartlett's Test | | | | | | | | |
|-------------------------|------|----|--------------------|---------|--|--|--|--|
| Kaiser-Mey | .832 | | | | | | | |
| Adequacy. | | | | | | | | |
| Bartlett's | Test | of | Approx. Chi-Square | 9962.97 | | | | |
| Sphericity | | | | 1 | | | | |
| | | | df | 465 | | | | |
| | | | Sig. | .000 | | | | |

The findings of the Kaiser-Meyer-Olkin (KMO) and Bartlett's Test of Sphericity shown in the above table help to evaluate the suitability of data for factor analysis.

Measure of Sampling Adequacy:

1. Kaiser-Meer-Olkin (KMO)

Kaiser-Meer-Olkin (KMO) value 0.832 statistic falls between 0 to 1 ranges. A score nearer 1 suggests that the data is suitable for factor analysis. This means the sample size is sufficient for factor analysis which indicates that there are some common elements among the variables and that factor analysis will probably provide different and trustworthy factors.

2. Bartlett's sphericity test

Approx. Chi-Square: 9962.971

Df: 465

Sig. (Significance or p-value): o

Bartlett's test looks for un correlation between the variables—that is, whether the correlation matrix is an identity matrix. The correlation matrix is not an identity matrix, hence there are notable links among the variables according to a p < 0.05 result. With this regard, the p-value (Sig.) is 0, which is quite highly significant (p < 0.001) which indicates that factor analysis is suitable and that the variables are linked.

The KMO and Bartlett's test findings taken together show that the data is appropriate for factor analysis. The KMO value of 0.832 points to sufficient sampling; the significant Bartlett's test shows the variables are linked.

TABLE 2 REPRESENTING TOTAL VARIANCE EXPLAINED

| Total Variance Explained | | | | | |
|--------------------------|---------------------|-------------------------------------|--|--|--|
| Compone | Initial Eigenvalues | Extraction Sums of Squared Loadings | | | |

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| nt | Total | % of | Cumulative | Total | % of | Cumulative | |
|--|-------|----------|------------|-------|----------|------------|--|
| | | Variance | % | | Variance | % | |
| 1 | 8.080 | 26.063 | 26.063 | 8.080 | 26.063 | 26.063 | |
| 2 | 4.018 | 12.962 | 39.025 | 4.018 | 12.962 | 39.025 | |
| 3 | 3.417 | 11.024 | 50.049 | 3.417 | 11.024 | 50.049 | |
| 4 | 2.908 | 9.381 | 59.430 | 2.908 | 9.381 | 59.430 | |
| 5 | 2.399 | 7.738 | 67.168 | 2.399 | 7.738 | 67.168 | |
| 6 | 1.938 | 6.250 | 73.418 | 1.938 | 6.250 | 73.418 | |
| Extraction Method: Principal Component Analysis. | | | | | | | |

The Total Variance Explained from a Principal Component Analysis (PCA) is presented below. It makes abundantly evident how much every taken component contributes to the overall data variance.

"Component" this column lists the extracted components (1- 6 in this case). Eigenvalues reveal the extent of the variation in the original factors each contributes to explain. Higher eigenvalues imply that the component explains more of the variation. This reveals the proportion of the whole variance in the data each component explains.

The first component has an eigenvalue of 8.08 and explains 26.063% of the total variance which means it captures the most significant amount of variability in the data. Following the second component has an eigenvalue of 4.018 and explains 12.962% of the variance. The third component has an eigenvalue of 3.417 and explains 11.024% of the variance. The fourth component has an eigenvalue of 2.908 and explains 9.381% of the variance. The fifth component has an eigenvalue of 2.399 and explains 7.738% of the variance. The sixth component has an eigenvalue of 1.938 and explains 6.25% of the variance.

TABLE 3 REPRESENTING COMPONENT MATRIX

| Component Matrix ^a | | | | | | | |
|---|-----------|---|---|---|-------------|---|---|
| | Component | | | | Factor Name | | |
| | 1 | 2 | 3 | 4 | 5 | 6 | |
| The organisation offers tools and direction to help keep a home work environment free from disruptions throughout the epidemic. | 0.656 | | | | | | |
| Working from home, the mission and objectives of the organisation inspire and drive me in my employment. | 0.655 | | | | | | |
| The firm offers the required infrastructure and technology tools to enable me work from home. | 0.654 | | | | | | Factor-1 Employee Experience and well being |
| Working from home drives and excites me about my career. | 0.647 | | | | | | |
| My workload is reasonable, hence I can have a decent worklife balance even if I work from home. | 0.637 | | | | | | |
| During the work-from- home time, I believe the company gives my mental health and general | 0.615 | | | | | | |

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| | | | l e | l e | | |
|--|---------|-------|-------|-----|-------|---------------|
| state first priority. | | | | | | |
| TATILLE AND PROPERTY OF THE PR | 0.608 | | | | | |
| While working from home, the organisation provides tools and | 0.008 | | | | | |
| support to help preserve both | | | | | | |
| | | | | | | |
| physical and emotional health. | 2 (2 2 | | | | | |
| Even in a remote work | 0.603 | | | | | |
| environment during the | | | | | | |
| epidemic, the organisation | | | | | | |
| advocates a welcoming and | | | | | | |
| inclusive work culture. | | | | | | |
| Working from home drives me | 0.599 | | | | | |
| towards my objectives and aims. | | | | | | |
| I believe that my company | 0.597 | | | | | |
| appreciates my need for work- | | | | | | |
| life balance even if I work from | | | | | | |
| home. | | | | | | |
| Working from home satisfies me | 0.597 | | | | | |
| with regard to the degree of | | | | | | |
| inspiration and involvement. | | | | | | |
| Regular comments and | | | | | 0.514 | Factor-5 |
| appreciation for my work help to | | | | | | Motivation |
| increase my drive when working | | | | | | |
| from home. | | | | | | |
| Working from home in the | | | | | 0.527 | |
| framework of the epidemic, I | | | | | | |
| find generally driven and | | | | | | |
| involved in my work. | | | | | | |
| My working from home schedule | | | | | 0.536 | |
| lets me spend more time with | | | | | | |
| my loved ones. | | | | | | _ |
| Working from home gives the | | | 0.56 | | | Factor-3 |
| firm chances for virtual social | | | | | | Remote Team |
| contacts and team development | | | | | | Collaboration |
| exercises. | | | | | | and Support |
| Working from home, the | | | 0.537 | | | |
| company supports a cooperative | | | | | | |
| and helpful attitude to problem- | | | | | | |
| solving and decision-making. | | | | | | |
| Working from home motivates | | | 0.529 | | | |
| me since my supervisors and | | | | | | |
| coworkers help me and make me | | | | | | |
| valuable. | | 0.66 | | | | |
| Under remote work, my boss | | 0.665 | | | | |
| promptly and clearly expresses | | | | | | Factor-2 |
| requirements and changes in | | | | | | Supervisor |
| direction. | | 2.6.0 | | | | support and |
| Working remotely during the | | 0.658 | | | | communication |
| epidemic, I rely on my boss to | | | | | | |
| speak out for my needs and | | | | | | |

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| concerns. | | | | |
|--|-----------------|-------|-------|-------------------------------|
| | | | | |
| During remote work, my | 0.656 | | | |
| supervisor is responsive to my | | | | |
| enquiries and concerns. | | | | |
| Working from home, my | 0.572 | | | |
| supervisor motivates and | | | | |
| supports my professional | | | | |
| development and advancement. | | | | |
| Working from home, my boss | 0.545 | | | |
| notes and values my efforts and | | | | |
| contributions. | | | | |
| Working from home allows me | | 0.583 | | Factor-4 |
| the degree of work-life balance I | | | | Personal |
| am happy with. | | | | Benefits and |
| Working from home gives | | 0.561 | | Satisfaction |
| chances for cooperation and | | | | from Remote |
| working with colleagues that | | | | Work |
| inspire me. | | | | |
| My work-fromhome routine | | 0.504 | | |
| allows me to schedule frequent | | | | |
| breaks and time off to | | | | |
| rejuvenate. | | | | |
| Working from home gives the | | 0.501 | | |
| tasks I do a meaning and | | | | |
| satisfaction. | | | 2.6- | |
| My supervisor believes I can | | | 0.65 | |
| operate autonomously from | | | | To do a 6 |
| home during the epidemic. | | | 0.650 | Factor-6 |
| While I am working from home, | | | 0.608 | Supervisor Trust and Clear |
| my supervisor lays out exactly what is expected of me. | | | | Expectations |
| Extraction Method: Principal Com | nonent Analysis | | | Expectations |
| | 4 | | | |
| a. 6 components extracted. | | | | |

This table's contents result from a Principal Component Analysis (PCA). PCA is a statistical technique for simplifying data by means of underlying elements or components identifying the causes of observed variations in the variables.

Factor 1: Employee experience and well-being—is in the remote work environment, this section boasts a lot of items with strong weight towards organisational support, resources, work-life balance, mental health, and general happiness. These hence most likely solve a general problem related to the general experience and health of the employee.

Factor 2: Supervisor support and communication: This section contains a number of things including how responsive the supervisor is, how clear their communication is, how they support development, and how they value contributions. This suggests a component related to the nature of the boss-worker relationship as well as the assistance the boss provides.

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Factor 3: Remote Team Collaboration and Support: This section covers a lot of virtual social interaction, team development, problem-solving cooperation between colleagues and superiors. This suggests a component related to the degree of cooperative and helpful nature of online teaming.

Factor 4: Personal Benefits and Satisfaction from Remote Work: This element has a variety of elements that speak to work-life balance, motivating colleagues, flexible hours, and performing work that matters. This suggests a cause related to the advantages and satisfaction working from home offers.

Factor 5: Motivation: Items related to gratitude, connection, and time spent with loved ones carry high loadings in this regard. This indicates a component influencing people's daily life and what drives them to work from home.

Factor 6: Clear Expectations and Trust in the Supervisor: Items pertaining to supervisor trust in authority and open communication of expectations have great loadings in this factor. This indicates a component related to the management of the boss and the integrity and clarity of the online working relationship.

FINDINGS OF THE RESEARCH

For analysis, the data was strong; the statistical tests revealed sufficient good responses to enable significant findings. Six elements have been shown to explain almost 73% of the variables influencing remote work experiences: Employee Experience and Well-being, Supervisor Communication and Support, Remote team cooperation and support, Personal benefits and satisfaction from remote work, Motivation, Supervisor trust and clear expectations

RECOMMENDATIONS AND SUGGESTIONS

- Look after your people: concentrate on helping mental health in rural environments. Make sure everyone feels part of the corporate culture and possesses the necessary technology.
- Guide managers towards better remote leadership. Teach managers good distant communication techniques. Urge them to routinely offer comments and acknowledge excellent work.
- Establish online chances for social connection for your team. Encourage a friendly team even in cases where members are not physically close.
- Acknowledge how working remotely enables individuals to better manage their life. Appreciate its freedom and adaptability.
- Keep People Motivated: Never overlook the need of often expressing gratitude. Support staff members' family time and help them to appreciate the value of their employment.
- Build confidence with well-defined expectations and allow employees freedom to operate autonomously. Show faith in the competencies of your team.

LIMITATIONS

Self-reporting data originates from a biassed source. These results especially speak to remote labour during the epidemic and might not apply anywhere. The method of analysis helps to simplify difficult material; interpretation calls for some subjectivity. These realisations will help companies to specifically enhance their remote work policies.

CONCLUSION

This paper offers important new perspectives on the dynamics of virtual offices based on factor analysis of remote work experiences. Six different elements—Employee Experience and Well-being, Supervisor Support and Communication, Remote Team Collaboration and Support, Personal Benefits and Satisfaction from Remote Work, Motivation, and Supervisor Trust and Clear Expectations—showcase the several ways in which remote work effectiveness is multifarious.

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The most important factor—explaining 26% of variance—is employee experience and well-being; hence organisations have to give employee mental health top priority together with sufficient technology assistance in remote locations. Furthermore emphasised by the importance of supervisor-related elements is the critical part virtual work environments' leadership performs.

These results imply that effective distant work environments call for a comprehensive strategy that addresses the human factors of trust, communication, and well-being in addition to the technical ones of remote cooperation. Companies who pay close attention to these six dimensions are probably going to produce more fulfilling and efficient remote work environments particular context during an epidemic. Still, these findings offer businesses trying to maximise their remote work rules and practices practical information. Knowing these fundamental elements will enable companies create focused plans to improve employee experience and organisational performance in virtual environments as remote and hybrid work models change.

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