

A STUDY ON ATTRITION DYNAMICS OF EMPLOYEES IN THE IT INDUSTRY CONCERNING A SOFTWARE FIRM IN CHENNAI

M DEEPIKA¹, DR. H. MICKLEAANCY² M.B.A., M.Phil., Ph.D.,

1- II MBA student, Panimalar Engineering College, Chennai.

2. Assistant professor, Department of Master of Business Administration, Panimalar Engineering College,
Chennai.

deepika.mohan2501@gmail.com¹, mickleaancy@gmail.com²

ABSTRACT

This research aims to delve into the factors contributing to employee turnover within Regami Solutions, a prominent player in the technology sector. By exploring the reasons behind attrition, this study seeks to offer insights and recommendations to mitigate turnover and foster a more engaged and stable workforce. The need for this study arises from the recognition of the detrimental effects of employee attrition on organizational stability and performance. This research study delves into the Study with a sample size of 236 respondents who have been employed at Regami Solutions, the study adopts a descriptive research design and leverages primary data sources, predominantly structured questionnaires. Based on the findings, this research proposes a series of strategic interventions to address employee attrition effectively.

KEYWORDS: Employee Attrition, Retention, IT Industry, IT Employees.

I. INTRODUCTION

Employee attrition is a significant concern for organizations across various industries, with the Information Technology (IT) sector being particularly affected. This research aims to investigate the attrition dynamics within the IT industry, focusing on a specific software firm located in Chennai. As the IT industry is characterized by rapid technological advancements, high project demands, and intense competition for skilled labor, understanding the underlying causes and patterns of employee turnover is crucial for organizational stability and growth. The significance of this study lies in its potential to uncover the multifaceted factors contributing to employee turnover. These factors may include Work Stress, Job Satisfaction, Career Growth Opportunities, Attrition, Organizational Commitment, and Work-Life Balance. By identifying these elements, the research can provide actionable insights for the firm to enhance its retention strategies, ultimately leading to a more stable and motivated workforce.

II. REVIEW OF LITERATURE

1. **Adel Ismail and Yahya A Ghanem (2024)** predicted employee attrition using Machine learning which can help organizations improve their retention strategies and enhance their performance. This article presents a Systematic Literature Review (SLR) of the previous studies that have applied machine learning techniques to predict employee attrition. The SLR covers the data sources, the machine learning models, and the evaluation metrics used in the existing literature.

2. **K M Mithravinda and Sakshi Shetty (2023)** were involved in Prediction, Analysis of Contributory Factors, and Recommendations for Employee Retention. Based on the IBM HR Analytics Employee Attrition & Performance dataset, we have designed a system that assesses the importance of each feature that contributes towards each employee's possible attrition from the company. By predicting attrition using machine learning models, they have determined which factors contribute the most towards employee attrition.
3. **Zoe Bell, Lorna Porcellato, Paula Holland (2024)** involved in a systematic scoping review of health-promoting interventions for contact center employees examined through a behavior change wheel lens. Social determinants of health and poor working conditions contribute to excessive sickness absence and attrition in contact center advisors. With no recent review conducted, the current scoping review is needed to investigate the volume, effectiveness, acceptability, and feasibility of health-promoting interventions for contact center advisors.
4. **Rajashri Chakraborty and Praveen Ahmed Alam (2024)** delved into the models of turnover intentions of Faculty Members of Higher Educational Institutes focused on turnover of faculty members, the underlying factors behind their exit, and frameworks that try to comprehend the dynamics of faculty turnover. Frameworks like the Causal model, the Multilevel Structural model, and the Empirical model have significantly deepened the understanding of the faculty turnover process. By discerning the factors that lead to turnover of faculty members, institutes can develop relevant strategies to reduce their attrition rates, thereby enhancing the quality of the institute. This chapter makes a comprehensive review of the determinants of faculty turnover, highlighting significant works of various scholars, as well as of the models; based on secondary data, that is, a rigorous study of the existing literature on the topic.
5. **Farhat Haque (2024)** investigated the issue of high employee turnover in the Indian tech industry. The study is designed to integrate the two theoretical viewpoints of employee turnover literature by consolidating the reasons behind quitting behavior and staying intention. Codes combining the two aspects are presented as a valuable resource to retain tech talent. Two broad perspectives have been established in the literature: the reasons for quitting and the explanations for staying. Employing a comprehensive review, this paper combines these two aspects of literature and suggests factors under the organization's control to retain competent tech employees.
6. **Shweta Bagdi and Sonal Sidana (2023)** have a Systematic review of Career Development Opportunities in banks and their impact on employee Attrition. The purpose of this paper is to see whether there is a relationship between CDO, job satisfaction, and attrition and to find out the various factors impacting CDO (Career Development Opportunities) to attrition. The finding of the study says that there is a significant relationship between CDO and attrition. Various factors are identified in which job satisfaction plays an essential role in career development for controlling attrition problems. The result of the study will be helpful for HR administrators in improving the Human Resources Practices of CD and identifying the perfect gap in the existing study regarding CDO to reduce the attrition rate.

III. OBJECTIVES OF THE STUDY

- To identify and analyze the correlations between job satisfaction, organizational commitment, work-life balance, career growth opportunities, organizational culture, and work stress.

- To Evaluate the impact of employee attrition on morale, motivation, and performance within the organization.
- To offer actionable recommendations with guided insights to reduce the level of attrition at Regami Solutions.

IV. NEED FOR THE STUDY

With the IT industry being highly competitive, retaining skilled employees is crucial for maintaining a competitive edge. Understanding the factors leading to attrition can help organizations devise strategies to retain top talent. Employee turnover in the IT sector can be costly due to recruitment, training, and productivity losses associated with replacing departing employees. Studying attrition can help quantify these costs and develop cost-effective retention strategies.

V. RESEARCH METHODOLOGY

The study adopted a descriptive research method. Primary data has been collected through a descriptive survey using a questionnaire employed in this study. The questionnaire's section A asks the respondents certain demographic questions. The development of section B was based on the dynamics of the Employee Attrition. The survey was conducted online and the respondents were selected randomly.

VI ANALYSIS AND INTERPRETATION

1.1 CORRELATION

TABLE REPRESENTING THE CORRELATION BETWEEN THE DYNAMICS OF EMPLOYEE ATTRITION

Spearman's rho	Job Satisfaction	Organizational Commitment	Work-Life Balance	Work Stress	Career Growth Opportunities	Attrition
Job Satisfaction	1	0.062	0.039	0.065	0.069	0.049
Organizational Commitment		1	.954**	.976**	.953**	.952**
Work-Life Balance			1	.956**	.930**	.956**
Work Stress				1	.967**	.963**
Career Growth Opportunities					1	.940**
Attrition						1

** . Correlation is significant at the 0.01 level (2-tailed).

INFERENCE

- Strong, significant correlations between Organizational Commitment, Work-Life Balance, Work Stress, Career Growth Opportunities, and Attrition, suggesting that these aspects are highly interrelated. Improvements or declines in one are likely mirrored by the others.
- Job Satisfaction is relatively independent, showing weak correlations with other factors. This implies that an employee's satisfaction at work may not significantly influence or be influenced by their perception of commitment, balance, stress, or opportunities.
- The strong links between work-related stress, balance, career growth, and attrition highlight key areas for management to focus on to potentially reduce turnover and boost overall employee commitment.

1.2 REGRESSION

Model Summary				
Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	0.976 ^a	0.952	0.951	1.414
a. Predictors: (Constant), Career Growth Opportunities, Job Satisfaction, Work-Life Balance, Work Stress, Organizational Commitment				

ANOVA ^b						
Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	9108.15	5	1821.63	911.04	.000 ^a
	Residual	459.886	230	2		
	Total	9568.03	235			
a. Predictors: (Constant), Career Growth Opportunities, Job Satisfaction, Work-Life Balance, Work Stress, Organizational Commitment						
b. Dependent Variable: Attrition						

Coefficients ^a						
Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	-0.679	0.462		-1.469	0.143
	Job Satisfaction	-0.008	0.02	-0.006	-0.418	0.676
	Organizational Commitment	0.359	0.101	0.352	3.562	0
	Work-Life Balance	0.305	0.067	0.271	4.574	0
	Work Stress	0.392	0.103	0.304	3.802	0
	Career Growth Opportunities	0.045	0.072	0.06	0.618	0.537
a. Dependent Variable: Attrition						

INFERENCE

The regression equation is $Y = -0.679 - 0.008 X_1 + 0.359 X_2 + 0.305 X_3 + 0.392 X_4 + 0.045 X_5$

Where Y – Attrition, X1 – Job Satisfaction, X2 – Organizational Commitment, X3 – Work Life Balance, X4 – Work Stress, X5 – Career Growth Opportunities.

1.3 U TEST – GENDER

H₀: There is no significant difference between the mean ranks of men and women with respect to Job satisfaction, Organizational commitment, Work-Life Balance, Work Stress, Career Growth Opportunities and Attrition.

H₁: There is significant difference between the mean ranks of men and women with respect to Job satisfaction, Organizational commitment, Work-Life Balance, Work Stress, Career Growth Opportunities and Attrition.

TABLE REPRESENTING THE MEAN RANK OF GENDER

Ranks				
	GENDER	N	Mean Rank	Sum of Ranks
Job Satisfaction	Men	129	124.81	16101
	Women	107	110.89	11865
	Total	236		

Organizational Commitment	Men	129	109.81	14165
	Women	107	128.98	13801
	Total	236		
Work-Life Balance	Men	129	108.14	13949.5
	Women	107	131	14016.5
	Total	236		
Work Stress	Men	129	107.14	13820.5
	Women	107	132.2	14145.5
	Total	236		
Career Growth Opportunities	Men	129	108.18	13955
	Women	107	130.94	14011
	Total	236		
Attrition	Men	129	108.54	14002
	Women	107	130.5	13964
	Total	236		

TABLE REPRESENTING THE REST RESULTS OF U-TEST

Test Statistics ^a						
	Job Satisfaction	Organizational Commitment	Work-Life Balance	Work Stress	Career Growth Opportunities	Attrition
Mann-Whitney U	6087	5780	5564.5	5435.5	5570	5.62E+03
Wilcoxon W	11865	14165	13949.5	13820.5	13955	1.40E+04
Z	-1.577	-2.162	-2.602	-2.841	-2.571	-2.496
Asymp. Sig. (2-tailed)	0.115	0.031	0.009	0.004	0.01	0.013
a. Grouping Variable: GENDER						

INFERENCE

From the table, p value of Job Satisfaction > 0.05, p value of Organizational commitment, Work-Life Balance, Work Stress, Career Growth Opportunities and Attrition < 0.05.

There is no significant difference between the mean ranks of men and women with respect to Job satisfaction

There is significant difference between the mean ranks of men and women with respect to Organizational commitment, Work-Life Balance, Work Stress, Career Growth Opportunities and Attrition.

1.4 H TEST – AGE

H₀: There is no significant difference among the mean ranks of categories of age concerning Job satisfaction, Organizational commitment, Work-Life Balance, Work Stress, Career Growth Opportunities and Attrition.

H₁: There is significant difference among the mean ranks of categories of age concerning Job satisfaction, Organizational commitment, Work-Life Balance, Work Stress, Career Growth Opportunities and Attrition.

TABLE REPRESENTING THE MEAN RANK OF AGE

Ranks			
	AGE	N	Mean Rank
Job Satisfaction	Below 25 years	182	118.28
	25 to 35 years	22	133.3
	Above 35 years	32	109.59

	Total	236	
Organizational Commitment	Below 25 years	182	120.05
	25 to 35 years	22	120.45
	Above 35 years	32	108.36
	Total	236	
Work-Life Balance	Below 25 years	182	120.97
	25 to 35 years	22	115.93
	Above 35 years	32	106.22
	Total	236	
Work Stress	Below 25 years	182	120.84
	25 to 35 years	22	111.98
	Above 35 years	32	109.66
	Total	236	
Career Growth Opportunities	Below 25 years	182	119.16
	25 to 35 years	22	115
	Above 35 years	32	117.12
	Total	236	
Attrition	Below 25 years	182	120.73
	25 to 35 years	22	113.55
	Above 35 years	32	109.2
	Total	236	

TABLE REPRESENTING THE TEST RESULTS OF H TEST

Test Statistics ^{a,b}						
	Job Satisfaction	Organizational Commitment	Work-Life Balance	Work Stress	Career Growth Opportunities	Attrition
Chi-Square	1.613	0.828	1.348	0.975	0.089	0.931
df	2	2	2	2	2	2
Asymp. Sig.	0.446	0.661	0.51	0.614	0.956	0.628
a. Kruskal Wallis Test						
b. Grouping Variable: AGE						

INFERENCE

From the table, p value > 0.05, hence null hypothesis is rejected.

There is significant difference among the mean ranks of categories of age with respect to Job satisfaction, Organizational commitment, Work-Life Balance, Work Stress, Career Growth Opportunities and Attrition.

VII. FINDINGS OF THE STUDY

Out of 236 respondents, the Majority of them such as 55% of the respondents are Male. 77% of the respondents are at the age of below 25 years. The majority of the respondents, such as 89% of them earn more than 2 lakhs per Annum. 69% of the respondents are unmarried. Majority of the respondents, around 52% of them have more than 3 years of experience. Most of the respondents leave the organization frequently for better career opportunities. 71% of the respondents have considered leaving their job in the last six months. The majority of the respondents feel that employee attrition impacts the overall performance of the organization to a great extent. Strong, significant correlations between Organizational Commitment, Work-Life Balance, Work Stress, Career Growth Opportunities, and Attrition, suggest that these aspects are highly interrelated. Improvements or declines in one are likely mirrored by the others.

VIII. LIMITATIONS OF THE STUDY

- 1) This study is limited by its small sample size of 60 participants, which may limit the generalizability of the findings.
- 2) The study is limited by the availability of data, as some participants did not provide complete responses to all the questions.
- 3) This study is conducted in Chennai, which may limit the generalizability of the findings to other regions or countries.

XI. CONCLUSION

By prioritizing competitive compensation and benefits, providing ample career development opportunities, promoting a healthy work-life balance, fostering a positive company culture, addressing workplace issues promptly, and recognizing and appreciating employees' contributions, the organization can create a supportive and rewarding work environment conducive to long-term employee commitment.

Furthermore, conducting exit interviews and gathering feedback from departing employees can provide valuable insights into the specific reasons behind attrition at Regami Solutions, enabling the organization to make targeted improvements and preventive measures.

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