Analytical Study of Psychological Capital and Emotional Intelligence as Predictors of Indian Business Students' Performance

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Abstract

In today's fast paced, uncertain, volatile and competitive world, it has become utmost important to find out ways and means to tackle psychological issues and emotional intelligence of individuals. This uncertain and competitive culture not only affects the business world but also affects the performance and life of the students. The present study aims to analyze the impact of Psychological Capital and Emotional Intelligence on the academic performance of the Indian Business graduates. 175 participants responded to a well-structuredquestionnaire. The perception of students was measured using a structured questionnaire. The questions were formulated based on the variables such as emotional intelligence (EI) and psychological capital (Psycap) taking into consideration pervious research. Twenty Four components of Psychological Capital were used (Luthans, Avolio and Avey, 2007) and Fifty components of Emotional Intelligence were used for the study. The performance of students was measured using their SGPA scores. Factor Analysis and Ordinal regression was applied to the collected data. It was found that only a few variables of Psychological capital and Emotional Intelligence affect the performance of Indian Business students. Implications of the findings as well as recommendations for future studies have been discussed.

Keywords: Psychological Capital, Emotional Intelligence, PsyCap, EI.

1. Introduction:

The present workplace condition is subjected to a VUCA world i.e. Volatility, uncertainty, complexity and ambiguity. There are a lot of issues which results due to this uncertainty and complexity. To face workplace conditions like these, the Indian Business students need to be fully prepared. Their performance to some extent will reflect their readiness to face situations that will be thrown at them in the future. In order to understand an individual's positive psychological state of development, the psychological capital of the students is measured.Psychological capital is defined as an affirmative condition for individual improvement with the features of self-reliance while dealing with the challenges (self-efficacy), positive expectations for the future success (optimism), being full of determination (hope), and accomplishment in spite of obstacles (resilience). The onset of the 21st century brought in the works of Luthan, (2002) which emphasized that the focus of attention in the field of organizational behavior should center on PositiveOrganizational Behavior (POB), while a lot of study inpsychology and application to human resources, suggests that positive orientation, which could be measured, managed and developed to enhance employees' performance Luthans, Youssef, &Avolio, 2007). Characteristics such as hope, resilience, confidence and optimism were presented as POB states, considering that they represent a higher order setting in employees, named as Positive Psychological Capital. This now extensively acknowledged construct of Positive PsyCap consists of the positive psychological resources of hope, efficacy, resilience, and optimism (i.e., the "HERO" within) and has been clearly validated to be a higher order core construct (Luthans, Avolio, Avey, & Norman, 2007) and is positively related to a variety of employee attitudinal, behavioral, and performance outcomes (Avey, Reichard, Luthans, &Mhatre, 2011; Luthans& Youssef-Morgan, 2017). Additionally of most relevance to this study, PsyCap has been demonstrated in empirical studies to contribute to desired management education outcomes such as academic performance (Luthans, Luthans, & Jensen, 2012), student engagement (Luthans, Luthans, & Palmer, 2016), and student adjustment (HazanLiran& Miller, 2017).

2. Objectives of the study:

- 1. To predict the association between psychological capital, emotional intelligence and its effects on Indian Business students' performance.
- 2. To examine the impact of psychological capital of Business students' performance.
- 3. To investigate the impact of emotional intelligence of Business students' performance.

3. Hypotheses of the study:

H01: There is no association between Psychological Capital and Emotional Intelligence.

H02: Psychological capital does not affect the performance of the business students.

H03: Emotional Intelligence does not affect the performance of the business students.



Fig 1. Framework showing the relationship between Psychological capital, Emotional intelligence and SGPA score

4. Literature Review

Pradhan.R, Jena., Land, Bhattacharya.,P (2016) researched the relationship between psychological capital (Psycap) and organizational citizenship behavior (OCB) and also studied if the Emotional Intelligenceconstructplays a role in moderating the relationship between Psycap and OCB. The four variables (efficacy, hope, optimism and resiliency) that Psy Cap are unique, measurable, developable, and impactful on performance (Luthans et al., 2004). In the early years businessmen gave utmost importance to the finances, material and other resources but later the role of human resource and its importance was established. And in recent years, businessmen found that the four variables in positive PsyCap are also very important for business and economic growth (Luthans et al., 2004, 2007a; Rego et al., 2012).

It has been observed that there are numerous studies based on analyzing the impact of Psy Cap on adjustment. In 2007, Luthans found that the four variables of Psy Cap either together or separate did create a positive impact on the work performance and job satisfaction of the employees. Luthanset.al (2006) investigated and found that there does exist a positive impact on the company's financial performances when the participants' PsyCap was actually enhanced due to training. Luthans et.al (2008) found out that when the employees scored higher in the PsyCap variables of Self efficacy, Hope, optimism and Resilience, it had a positive impact, on performance, satisfaction and commitment of the employees.

A developing number of researchers have investigated the positive effects of PsyCap in the Chinese setting. Wang et al. (2012a,b) indicated that PsyCap helped Chinese medical caretakers and specialists to battle against their work burnout. Cheung et al. (2011) applied PsyCap to research 264 full time Chinese teachers in Mainland China. Results demonstrated that when instructors had high PsyCap, they had higher occupation fulfillment and lower work burnout. What's more, the positive relationship between profound acting and employment fulfillment was additionally strengthened among members with high PsyCap.

Vanno V., Kaemkate W., Wongwanich S.,(2014) tried to find out the relationship between academic performance, perceived group PsyCap, and individual PsyCap of Thai undergraduate students. The results exhibited that academic performance had a positive direct effect on students' PsyCap and positive indirect effect on students' perceived group PsyCap through their own PsyCap. Moreover, students' PsyCap has positive impact on their perception of PsyCap of the group, but there is no reciprocal effect.

Thomas E., and Tankha. G,(2017) in their study, examined the relationship between Big Five Personality traits and PsyCap among final year medical students and secondly, to determine whether Big Five personality traits hold predictive value for PsyCap of final year medical students. Also studies trying to find out the relationship between PsyCap and Creativity of the students (Tsai, Lee, & Hsu, 2012), coping up mechanism or positive coping up style (Khan, Siraj, & Li, 2011; Qingquan & Zongkui, 2009) and physical and psychological well- being (Qingquan & Zongkui, 2009; Zhong & Ren, 2009), have been carried out. The major idea was to find out the impact of students' academic performance on their perception of PsyCap, both individually and in groups.

4.1 Emotional Intelligence:

Emotional intelligence (EI) can be understood as the ability to perceive, control, and evaluate emotions of self and others. It is the ability of an individual to manage others emotions and have oneself, it has five characteristics self-awareness, managing oneself, motivating oneself, Empathy and social skills. It is Daniel Goleman, who introduced the concept of Emotional Intelligence to the wide audience with his work in the form of a book. During his work he found that the qualities which traditionally were associated with leadership such as persistence, intelligence, determination, foresightedness and vision are essential for success remained insufficient. What distinguishes highly effective leaders from others was high degree of emotional intelligence.

Self-Awareness is the ability to understand oneself, know and recognize what you feel and how this affects the behavior and performance. When you are self-aware you tend to realize your potential and limitations. Managing emotions is the ability of a person to keep control on his /her emotions even when he/she is experiencing powerful emotions. This enables the person to avoid hasty decisions in the state of flow of emotions. This enables a person to take responsibility of your own actions. Motivation oneself reflects the ability to move out from any undesired situation and stay focused towards achieving goals. Empathy is the ability of understanding others, the way they feel and understanding their behavior. Self-awareness is the art of understanding your own emotions, it is simple if you are unable to understand your own emotions how you can understand that of others. And social skills are the ability to have a control in relationships and being able to influence others.

Studies have been to find the association of emotional intelligence to various aspects like mental, social and physical health and anxiety and depression. (E. Natalio and F. Pablo, 2014). The result showed EI having high association with anxiety and depression and low association with mental, social and physical health of the university students.C.Stephane and M. Christopherin 2006 tied to find the association of EI and cognitive Intelligence on job performance. The result showed that association between job performance and EI becomes more positive as cognitive intelligence decreases.

L. Paulo, B. Marc, N. John ,(2004) in their study found out that there is positive relationship between ability to manage emotions and quality of social interactions of American college students. Their study also revealed that managing emotions was positively related to quality of interactions with opposite sex people. Libbrecht, N., Lievens, F., Carette, B., & Côté, S. (2014) in their study tried to find out if EI could predict success of medical students on communication and interpersonal sensitivity, result showed that EI did not predict performance on courses on medical subject domains. Boyce, D. A. (2002) in his study found low correlation between emotional intelligence and cognitive ability and no correlation between cognitive ability and academic success existed, but low correlation between emotional intelligence and academic success of Master's level physical therapy students. Since not much of study was conducted to find out the correlation at Management students level were carried out, this study is majorly focused on the same.

5. Research Methodology:

Data was collected from 175 Indian Business Students of which 84 students were males and 91 students were females. The respondents belonged to first and second year of MBA at college's affiliated to the Savitribai Phule Pune University. Descriptive research design is used and data has been collected through a structured questionnaire designed by focusing on the academic performance of students and statements have been developed related to analyse the impact of psychological capital and emotional intelligence on their academic performance. The responses were collected in a classroom setting. The demographic details such as class, age and gender was obtained from each student who participated in this survey.

24 components of Psychological Capital and 50 components of emotional intelligence were tested. Factor analysis, Correlation and Ordinal Regression was applied to the data collected. The Semester Grade Point Average (SGPA) of the respondents was taken into consideration as a measure of their performance. Factor analysis was applied on the variables to reduce data and variables having an Eigen Value >1 was retained. Correlation was applied to the retained variables in order to study the association between Emotional Intelligence and Psychological Capital. Ordinal Linear Regression was also applied to the retained variables in order to test the Goodness of Fit. Out of the Psychological capital parameters, only the Self-Efficacy variables was retained during factor analysis and from the Emotional intelligence parameters, variables related to Self-Awareness and a few variables from managing emotions parameter were retained.

6. Results and Discussions:

6.1 Descriptive statistics:

The data has been collected through a structured questionnaire. The questionnaire on psychological capital (PsyCap) (i.e. a higher order constellation of positive psychological components that consists of hope, optimism, self-efficacy and resilience), byPCQ-24, Luthans, Avolio, Avey& Norman, 2007) was used, Likert scale questions ranged from Strongly Agree to Strongly Disagree) and 50 questions on Emotional Intelligence with Likert scale questions

ranged from Strongly Agree to Strongly Disagree).Out of the total 175 respondents, 52% students we from MBA-I year and 48% were from MBA-II year. 48% of the students who responded to the survey were Males whereas 52% were Females. 83% of the students belonged to the Age group of 20-25 years, 15% of the students belong to the age group of 25-30 years, 2% of the students were above 30 years of age. Students were also asked to provide the SGPA scores of their last examination, 52% students had a score between 7.1 to 8 SGPA, 30% students had a score between 8.1 to 9 SGPA, 11% students had a score between 6.1 to 7 SGPA, 5% students had a score above 9 SGPA and 2% students had a score below 6.

TableNo. 1. Mean, Standard Deviation, Partial Correlation of Psychological Capital & EI.

			Mean	, Stan	dard	Deviat	ion, P	artial	Corre	lation	of Psy	colog	jical C	apital	And E	motio	nal In	tellig	ence			
	Correlations																					
	Mean	SD	PSY1	PSY2	PSY3	PSY4	PSY5	El1	El2	El3	El4	EI5	El6	EI7	El8	El9	EI10	EI11	EI12	EI13	EI14	EI15
PSY1	4.26	.727	1																			
PSY2	4.36	.688	.499**	1																		
PSY3	4.26	.692	.447**	.420**	1																	
PSY4	4.50	.642	.359**	.477**	.292**	1																
PSY5	3.80	.884	.252**	.232**	.460**	.176 [*]	1															
El1	4.42	.628	.124	.063	037	.167 [*]	056	1														
El2	4.78	.493	028	.035	033	.116	116	.265**	1													
El3	4.48	.614	.038	.078	.046	011	.040	.223**	.279**	1												
El4	4.60	.625	.005	.070	053	.155 [*]	052	.193 [*]	.474**	.398**	1											
EI5	4.18	.595	.131	.124	.084	.144	.024	.124	.331**	.128	.254**	1										
El6	4.29	.615	.075	.095	.042	.075	.021	.181 [*]	.249**	.213**	.314**	.222**	1									
EI7	4.65	.547	.192*	.219**	.181 [*]	.112	.055	.299**	.345**	.081	.323**	.300**	.252**	1								
El8	4.50	.642	.051	.048	.086	.052	.055	.167 [*]	.243**	.164 [*]	.241**	.310**	.322**	.341**	1							
El9	4.29	.670	.160 [*]	.158 [*]	.122	.102	.118	.242**	.232**	.231**	.294**	.173 [*]	.341**	.268**	.222**	1						
EI10	4.69	.564	.059	.081	.131	.220**	.014	.171 [*]	.351**	.098	.316**	.113	.107	.370**	.172 [*]	.133	1					
EI11	4.27	.601	.137	.149 [*]	.037	.181 [*]	.061	.182 [*]	.285**	.108	.248**	.233**	.253**	.192 [*]	.166 [*]	.229**	.166 [*]	1				
El12	4.01	.621	.213**	.184 [*]	.170 [*]	.137	.149 [*]	.009	.173 [*]	.023	.095	.075	.101	011	.036	.107	.153 [*]	020	1			
EI13	4.13	.700	.082	023	.135	.078	.087	.115	.148	.099	.273**	.236**	.197**	.057	.129	.142	.041	.232**	.131	1		
El14	4.04	.600	.042	.090	.113	022	.243**	029	.030	.166 [*]	.165 [*]	.189 [*]	.125	.043	.157 [*]	.099	.071	.129	.308**	.248**	1	
El15	4.00	.678	.210**	.148	.184 [*]	026	.278**	.068	.034	.097	014	.100	.179 [*]	.031	0.000	.114	.045	.042	.082	.061	.113	1
**. Co	rrelatio	n is si	ignifica	nt at th	e 0.01	level (2	-tailed)).														J

*. Correlation is significant at the 0.05 level (2-tailed).

Source: Primary Data

24 components of Psychological Capital comprising of variables related to Self-efficacy, Optimism, Hope and Resilience for 175 respondents were analyzed. 50 components of emotional intelligence comprising of variables related to Self-Awareness, Managing Emotions, Motivating oneself, Empathy and Social Skills were analyzed. The Semester Grade Point Average (SGPA) of the respondents was taken into consideration as a measure of their performance. Out of the Psychological capital parameters, only the Self-Efficacy variables was retained during factor analysis and from the Emotional intelligence parameters, variables related to Self-Awareness and a few variables from managingemotions parameter were retained.

6.2 Mean, Standard Deviation, Partial Correlation of Psychological Capital and Emotional Intelligence

Psychological Capital:

In the PsychologicalCapital component, the highest mean was found for the "I feel confident setting targets/goals in my life" parameter which was 4.50. The second highest mean was found for the, "I feel confident in representing my ideas concerning my life" parameter which was 4.36. Equal weightage of means was found for the "I feel confident analyzing a long-term problem to find a solution concerning my life" and "I feel confident contributing to discussions about strategies on my life" parameters which was 4.26. The lowest mean was found for the "I feel confident contacting people to discuss problems concerning my life" parameter which was 3.80.

6.3 Emotional Intelligence:

In the Emotional Intelligence component, the highest mean was found for the parameter "I know when I am happy" whichwas4.78. In the Emotional Intelligence component, the second highest mean was found for the parameter "I know what makes me happy" which was 4.69. In the Emotional Intelligence component, the third highest mean was found for the parameter "Awareness of my own emotions is very important to me at all times" which was 4.65. In the Emotional Intelligence component, the fourth highest mean was found for the parameter "When I am being 'emotional' I am aware of this" which was 4.60. In the Emotional Intelligence component, the fifth highest mean was found for the parameter "Or the parameter "I am aware of this" which was 4.60. In the Emotional Intelligence component, the fifth highest mean was found for the parameter "I am aware of this" which was 4.60. In the Emotional Intelligence has upset or annoyed me" which was 4.50.

6.5 Confirmatory Factor Analysis:

Psychological	Capital:Table No). 2.KMO Bartlett	's Test for	Psychological	Capital
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KMO and Bartlett's Test							
Kaiser-Meyer-Olkin M	leasure of Sampling Adequacy.	0.893					
Bartlett's Test of	Approx. Chi-Square	1748.715					
Sphericity	df	276					
	Sig.	0.000					

Source: Primary Data

Bartlett's Test of Sphericity is found to be significant since the p value is (0.000) which is less than 0.05. Hence, the null hypothesis is rejected.

Table No. 3.Total variance, Percentage and Cumulative percentage variance forPsychological capital

Total Variance Explained						
_		Initial Eigenvalues				
Component	Total	% of	Cumulative			
	I Utai	Variance	%			
1.I feel confident analyzing a long-term problem to find a	8 312	34 634	34 63			
solution concerning my life	0.312	51.051	51.05			
2. I feel confident in representing my ideas concerning	2.142	8.927	43.56			
my life						
3 .I feel confident contributing to discussions about	1.417	5.905	49.47			
strategies on my life						
4 .I feel confident setting targets/goals on my life	1.181	4.919	54.39			
5 .I feel confident contacting people to discuss problems	1.029	4.286	58.67			
concerning my life			/ •			

Source: Primary Data

24 components were considered for the study of Psychological Capital; however after Factor analysis only 5 factors could be retained since they had an Eigen value > 1. Since the rest of the factors were found to be insignificant, they have been discarded. The first component accounts for 34.634% of the variance, the second accounts to 8.927%, the third component accounts to 5.905%, the fourth component accounts to 4.919% and the fifth component accounts to 4.286%.

6.6 Emotional Intelligence: Table No.4. KMO and Bartlett's Test for Emotional Intelligence

KMO and Bartlett's Test							
Kaiser-Meyer-Olki	n Measure of Sampling	0.825					
Ade	equacy.						
	Approx. Chi-Square	3334.236					
Bartlett's Test of	df	1225					
Sphericity	ui	1225					
	Sig.	0.000					

Source: Primary Data

Bartlett's Test of Sphericity is found to be significant since the p value is (0.000) which is less than 0.05. Hence, the null hypothesis is rejected.

Table No.5. Total variance, Percentage and Cumulative percentage variance for EmotionalIntelligence

Total Variance Explained						
	Initial Eigenvalues					
Component		% of	Cumulative			
	Total	Variance	%			
1. I realize immediately when I lose my temper	11.906	23.811	23.811			
2. I know when I am happy	2.363	4.726	28.538			
3.I usually recognize when I am stressed	1.932	3.864	32.402			
4.When I am being 'emotional' I am aware of this	1.792	3.584	35.986			
5.When I feel anxious I usually can account for the	1.596	3.191	39.178			
reason(s)						
6.I always know when I'm being unreasonable	1.546	3.092	42.270			
7.Awareness of my own emotions is very important to	1.512	3.024	45.293			
me at all times						
8.I can tell if someone has upset or annoyed me	1.452	2.905	48.198			
9.I can let anger 'go' quickly so that it no longer affects	1.416	2.833	51.030			
me						

10.I know what makes me happy	1.331	2.662	53.692
11.I can 'reframe' bad situations quickly	1.244	2.488	56.181
12.I do not wear my 'heart on my sleeve'	1.210	2.420	58.601
13.Others can rarely tell what kind of mood I am in	1.150	2.299	60.900
14.I rarely 'fly off the handle' at other people	1.062	2.124	63.024
15.Difficult people do not annoy me	1.032	2.064	65.089

Source: Primary Data

50 components were used for Emotional Intelligence Capital; however after Factor analysis only 15 factors could be retained since they had an Eigen value > 1. Since the rest of the factors were found to be insignificant, they have been discarded. The first factor accounts for 23.811 % of the variance, the second accounts to 4.726%, the third accounts to 3.864%, the fourth accounts to 3.584,the fifth accounts to 3.191 %, the sixth accounts to 3.092%, the seventh accounts to 3.024%, the eighth accounts to 2.905%, the ninth accounts to 2.833%, the tenth accounts to 2.662%, the eleventh accounts to 2.488%, the twelfth accounts to 2.420%, the thirteenth accounts to 2.299%, the fourteenth 2.124% and the fifteenth 2.064%.

Table No.6 Ordinal Regression Model Fitting Information of Psychological capital

Model Fitting Information									
Model	-2 Log Likelihood	Chi-Square	df	Sig.					
Intercept Only	287.357								
Final	261.423	25.934	14	0.026					

Source: Primary Data

From the above table it can be seen that the significance value i.e is 0.026 which is < 0.05. Hence, the null hypothesis is rejected.

Table No.7 Ordinal Regression Goodness- of -fitof Psychological capital

Goodness-of-Fit							
	Chi-Square	df	Sig.				
Pearson	285.206	290	0.568				
Deviance	204.411	290	1				

Source: Primary Data

From the above table it is seen that the observed data is having a goodness of fit with the fitted model. The significance value i.e 0.568 is > 0.05. Thus, the Null Hypothesis is accepted.

Pseudo R-Square						
Cox and Snell	0.138					
Nagelkerke	0.152					
McFadden	0.063					

Table No. 8. Ordinal Regression Pseudo R- squareof Psychological capital

Source: Primary Data

The proportion of the variance explained by the Independent variable on the dependent variable is 15.20%.

Table No.9. Ordinal Regression Test of parallel Lines of Psychological capital

Test of Parallel Lines								
Model	-2 Log Likelihood	Chi-Square	df	Sig.				
Null Hypothesis	261.423							
General	204.814b	56.609c	42	0.045				

Source: Primary Data

From the above table it can be observed that the significance value i.e 0.045 is <0.05. Thus, the null hypothesis is rejected.

Table No.10. Ordinal Regression Model Fitting Information of Emotional Intelligence

Model Fitting Information									
Model	-2 Log Likelihood	Chi-Square	df	Sig.					
Intercept Only	409.081								
Final	370.726	38.355	30	0.141					

Source: Primary Data

From the above table it can be seen that the significance value i.e is 0.141 which is < 0.05. Hence, the null hypothesis is rejected.

Table No.11. Ordinal Regression Goodness- of –fitof Emotional Intelligence

Goodness-of-Fit						
	Chi-Square	df	Sig.			
Pearson	753.31	614	0			
Deviance	367.614	614	1			

Source: Primary Data

From the above table it is seen that the observed data is having a goodness of fit with the fitted model. The significance value i.e 0 is > 0.05. Thus, the Null Hypothesis is accepted.

Pseudo R-Square				
Cox and Snell	0.197			
Nagelkerke	0.217			
McFadden	0.093			

Source: Primary Data

The proportion of the variance explained by the Independent variable on the dependent variable is 21.70%.

Test of Parallel Lines								
Model	-2 Log Likelihood	Chi-Square	df		Sig.			
Null Hypothesis	370.726							
General	255.221b	115.506c		90	0.036			

Table No.13. Ordinal Regression Test of parallel Lines of Emotional Intelligence

Source: Primary Data

From the above table it can be observed that the significance value i.e 0.045 is <0.05. Thus, the null hypothesis is rejected.

7. Implications of the study:

The findings of the present study are pertinent to teachers, parents, the education industry, universities and society at large. Management of schools and colleges can arrange training sessions for the Teachers and help them explore work related capabilities, review strategies and receive advice on how to develop their optimism, hope and resilience. Parents will also be able to see the view point of their wards from the emotional intelligence angle through a lot of workshops and discussion sessions organized by the school management which will help them contribute positively towards the emotional well-being of the students. This study shall assist the policy formulators at school, college and University levelto develop and design a curriculum based on emotional intelligence, psychological capital right from the early education. This study should also facilitate Higher Education authorities on how to design and develop processes that would enhance the emotional intelligence and psychological capital of students. Management institutes and Universities may also think of investing on training their faculty and students in order to enhance their EI skills. Once trained well, the Management faculty need to adopt the role of a guardian who can show care and concern for their students, appraise their emotional

reactions and use emotions to create a very positive environment in the classroom. A greater understanding of the students will facilitate the faculty members a chance to motivate them more to demonstrate inhabitant conduct. Effective curriculum development and classroom management would further help to observe the students' emotional well-being and achieve higher scores in their academics, ultimately enabling them be ready to face the challenges thrown their way in their career and life.Timely understanding of the student's Pyscap and EI levels will also help the faculty in devising ways to motivate them onto the right orientation path since they are future leaders of their organizations and the country.

8. Conclusions:

The research findings set out to understand the association between Psychological capital and Emotional intelligence of Indian Business students. The empirical findings of the study show that a partial correlation was observed between the two variables. Also, the ordinal regression between Psychological Capital, Emotional Intelligence and SGPA of the Indian Business students was studied; it was inferred that there is a significant impact of Psychological Capital and Emotional Intelligence on the SGPA of Indian Business Students.

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