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1	Profitability Performance of HDFC Bank and ICICI Bank: An
2	Analytical and Comparative Study
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5	Received: 10 December 2019 Accepted: 2 January 2020 Published: 15 January 2020

7 Abstract

The article is an attempt to analyze and examine the profitability performance of two selected
private banks in India; HDFC bank and ICICI bank. The article also aims to draw a

¹⁰ comparison between the profitability performances of these two banks in order to come up ¹¹ with clear understanding of new banking strategies. Mathematical and statistical tools and

¹¹ with clear understanding of new banking strategies. Mathematical and statistical tools an ¹² techniques such as Ratio, Trends, Simple multiple correlations are used to analyze data.

13

14 Index terms— profitability analysis, deposits, sectors, channels, investments, advances

15 **1** Introduction

16 he Indian economy is emerging as one of the strongest economy of the world with the GDP growth of more 17 than 8% every year. This has helped in shaping the current banking system all over the country. In addition, 18 globalization contributed to the evolution of banking industry by increasing the competition among domestic banks and opening opportunities for further development. Banks in the country whether private or public have 19 20 a potential to enhance economic growth by increasing their market shares and serving the growing upper and middle class categories. Given all this, the consumer is in a comfortable position with multiple choices and better 21 services since banks are continuously trying to offer better service in order to increase market share and sustain 22 their growth. 23

Before independence, there were three banks established under charters from the British East India Company. 24 For many years, these Presidency banks functioned as quasi-central banks, and some similar banks continued 25 26 in the same tradition. It was later in 1925 that the three banks were merged; forming what came to be known 27 as 'the Imperial Bank of India'. The imperial bank was also named state bank of India after independence. In 1839, a group of Indian merchants in Calcutta formed a new bank named 'Union Bank. Nevertheless, this bank 28 failed due to the economic crisis of 1848. Few years later, another bank was stabled under the name Allahabad 29 Bank. This bank is considered as one of the oldest in the country and it is still functioning. The trade of cotton 30 also promoted the establishment of banks in India. After the end of the civil war in the United States, the 31 Indian cotton was on demand and this pushed the traders to establish new banks to ease their business deal and 32 transactions. 33 Obviously, finance is undoubtedly the life blood of trade, commerce, and industry, and it plays an active role 34 in sustaining economic activities. Nowadays, banking sector is considered as an essential component of modern 35

business and it evolves continually to meet the expectations of economists. Therefore, it can be firmly stated 36 37 that the development of any nation is largely dependent on the efficacy of its banking system. In the beginning 38 of the human civilisations, money was not in existence and the requirements of the commodities and services 39 were fulfilled through barter system. In this system, services and goods were simply exchanged for other different on-demand services and goods in return. But the modern invention of 'currency' transformed people's exchange 40 and trade of goods, and subsequently banking was developed to a great extent. The invention of money and the 41 establishment of banks solved almost all the problems related to age-old barter system which definitely suffered 42 from many shortcomings. 43

HDFC and ICICI are two important banks in India today. They emerged as successful banks in the last few
 years, securing slots in the ten top banks in the country. Hence, this study aims at analyzing the profitability

46 performances of these two banks and finding out how they adopted and followed effective banking methods for 47 sustaining considerable profit. The secondary data that was obtained is analyzed using ratio method and the

results are compared in order to reflect the differences and similarities between the two selected banks.

49 **2** II.

50 3 Literature Review

Given the continual evolution banking system in India, competition between banks is ignited resulting in 51 better services, innovation, and upgrade. Subsequently, banks in India are under the pressure to develop, 52 differentiate, and innovate in order to attract more clients in a competitive market. To seize a market share, 53 banks have to actively engage in product development and micro-planning. Moreover, prudent pricing and 54 relevant customization of services should be adopted to meet the needs of the customers. In addition to the 55 frequent technology up-gradation, banks in India are obliged to consider cost reduction and also adapt their 56 lending strategies. In her work profitability of commercial banks, Amandeep (1993) has made an attempt to 57 58 explore the different trends in profitability of twenty banks in India. She used trend analysis ratio analysis and 59 concentration indices of the selected parameters. She also used multi variant analysis. Amandeep concluded that to have excellent profitability performance, banks need to have excellent performance in managing burden 60 61 (p.17). In the same vein, Ashok Kumar (2013) in his study "Opportunities and challenges in the Indian retail 62 banking industry" concludes that for the development of retail banking in India, a paradigm shift is required in bank financing through innovative products and mechanisms involving constant up-gradation of the banks 63 internal systems and processes (p.14). He point out that retail banking has more scope for generating profit than 64 any other traditional methods. Cheema and Agarwal (2002) analyzed the productivity of commercial banks in 65 India and compared the performance of public sector banks, private sector banks and foreign banks in India. 66 In her analysis, public sector banks were divided into two categories, i.e., State bank group and nationalized 67 68 banks (p.66). The input variables like owned funds, deposits, borrowings and wage bills were used. The output 69 variables like spread, non-interest income were used. Among public sector banks, State Bank of Patiala and Allahabad Bank were found to be most efficient banks in their bank groups, and Jammu & Kashmir Bank in 70 private sector bank group (p.73). ING Bank was on the top among foreign banks group. The study revealed that 71 the inefficiency among public sector banks was found due to excessive amount of owned funds, and inefficiency 72 among foreign banks was due to excessive borrowings (p.76). 73

Similarly, Delvin James (1995) carried out a case study that aimed at examining the retail banking services 74 75 offered in UK, using First Direct, a subsidiary of Midland Bank. His analysis reveals that banks can increase their market share through proper communication and prompt delivery of their products (p.44). In India, Goyal 76 77 and Kaur (2008) studied the performance of a group of private banks (seven in number), analyzing their data 78 from 2001 to 2007. The various statistical tools like mean, standard deviation, annual compound growth rate 79 and one-way ANOVA have been applied. The researchers calculated various ratios relating to capital adequacy, asset quality, employee productivity, earning quality and liquidity of banks. The study concluded that the capital 80 81 adequacy ratio of all the banks of the study is calculated above 9 per cent. Moreover, the study reveals that the average debt/equity ratio is registered higher in Axis Bank. On the other hand, Kotak Mahindra Bank received 82 maximum percentage increase with regard to NPAs. The study witnessed significant differences among the mean 83 ratios of all parameters except for liquid assets to total assets, liquid assets to total deposits, net profit to average 84 assets and percentage change in NPAs. 85

According to Goel and Chitwan Bhutani Rekhi (2013), efficiency and profitability of the banking sector in India 86 87 is regarded of a prime importance for several reasons among which are the intense competition (p.30). Moreover, it 88 is realized that the greater customer demands today add more pressure on banking sector to customize its services. More recently, certain indicators are used to measure the productivity of banks and evaluate their performance. 89 Meanwhile, it is recognized that the public sector banks cannot be compared to private banks in terms of profit. 90 As a result, they are under less competition and, since efficiency and profitability are interrelated, it means that 91 their performance is too cannot be compared to private banks. Mahalakshmi Krishnan (2012) found out that 92 in Retail Banking development shows in Urban-centric and in rural area the concept is beyond the thinking of 93 people. So attempt is made to strengthen the Indian Banking system (p. 19). 94

In 2007, Mittal, R. K. and Dhingra, S. conducted a research study that assessed the impact of computerization 95 on productivity and profitability of Indian Banks. The study covered the period from 2003-2004 and 2004-05. 96 The results of the study demonstrated the efficacy of ICICI Bank in all indicators (p.102). Nevertheless, it has 97 been so long since that study was conducted, which means new changes might have created new situations. In 98 connection to the previous studies, this study aims to measure and evaluate the relative profitability performance 99 100 of HDFC bank and ICICI bank in India. The analysis will add value to existing knowledge about banking and 101 profitability performance of banks in India. The data of five years will be analyzed using statistical tools like arithmetic mean, one-way ANOVA, Tukey HSD Test. The profitability of these banks will be evaluated by using 102 various parameters like Operating Profit Margin, Gross Profit Margin, Net Profit Margin, and Earning per Share, 103 Return on Equity, Return on Assets, Price Earnings Ratio and Dividend Payout Ratio. The sample of the study 104 only includes two banks; HDFC Bank and ICICI Bank. Simple random sampling was used to select the sample 105 from top five banks which are functioning in the stock market based on the current situation. The study relies 106

largely on secondary data that was obtained from the annual reports of the selected banks. To supplement the
data IBA Bulletin, RBI publication, different publications, Bank Quest, various books, periodicals, journals and
relating banking industry etc. have also been used for better reliability. Opinions expressed in Business Standard,

110 News Papers, accounting literature, Annual report and different publications have also been used in this study.

111 **4 III.**

¹¹² 5 Aims and Methodology

The collected data is duly edited, classifies, tabulated according to the needs of the objectives and hypothesis. Mathematical and statistical tools and techniques like Ratio, Trends, Simple & multiple correlations have been used. The most appropriate Parametric & Non parametric test have been used by the researcher. The data has been presented through different graphs and tables. Data has been converted in to relative measure such as ratios, percentages, indices rather than the absolute data.

The data has been analyzed and hypotheses have been tested by the researcher at 5% level of significance, by employing t -test, ANOVA technique, chi-square (X2) test, Karl Pearson's simple correlation, multiple correlations, multiple regressions etc. according to the need of the study. In this study, the used tools for data analysis are Ratio Analysis as an Accounting Tool and T-test as Statistical Tool. IV.

123 6 Hypothesis of the Study

Some hypotheses have been formulated in line with the stated aims of this study. These hypotheses are stated 124 125 below: H = 0 = There is no significance difference of gross profit ratio in selected HDFC Bank and ICICI Bank. H 1 = There is a significance difference of gross profit ratio in selected HDFC Bank and ICICI Bank. H 0 =126 There is no significance difference of Net profit ratio in selected HDFC Bank and ICICI Bank. H 1 = There is a 127 significance difference of Net profit ratio in selected HDFC Bank and ICICI Bank. H 0 = There is no significance 128 difference of Return on assets ratio in selected HDFC Bank and ICICI Bank. H 1 = There is a significance 129 difference of Return on assets ratio in selected HDFC Bank and ICICI Bank. H0 = There is no significance 130 difference of Return on capital employed ratio in selected HDFC Bank and ICICI Bank. 131

H = There is a significance difference of Return on capital employed ratio in selected HDFC Bank and ICICI Bank.

134 V.

135 7 Research Problem

There are a considerable number of private banks all over Indian offering banking services to millions of clients. 136 However, most of them do not enjoy much popularity and most importantly derive lower annual profit. This 137 can be attributed to several factors either related to marketing, professional service offered, or added value 138 services. Profitability of banks determines the success of strategies being implemented and approached adopted 139 for expanding customer base and increase profit. HDFC and ICICI are two notable private banks that more 140 often feature as leading in the banking sector in the country. To get a closer examination of the profitability 141 performance of these banks, this study analyzes the secondary data released by these banks in five consecutive 142 143 years.

144 VI.

145 8 Data Analysis

To analyze the data, various statistical techniques are used, including average, range, 'F' test and't' test. The
analysis is limited to Gross Profit Ratio, Net Profit Ratio, Return on Asset, and Return on Capital Employed.
All the data related to these aspects are presented and discussed below.

¹⁴⁹ 9 a) Gross Profit Margin Ratio

150 The gross profit margin is calculated as follows:

151 Gross Profit Ratio = Sales ? Cost of Good Sold Sales \times 100

The ratio measures the gross profit margin on the total net sales made by the company. The gross profit represent the excess of sales proceeds during the period under observation over their cost, before taking into account administration, selling and distribution and financing charges.

155 **10** Significance

? This ratio shows the relationship between gross profit and net sales. ? Higher ratio means lower cost of goods sold. Hence the performance of HDFC bank is good than ICICI Bank. Hypothesis H0 = There is no significance difference of gross profit ratio in selected HDFC Bank and ICICI Bank. H1 = There is a significance difference

159 of gross profit ratio in selected HDFC Bank and ICICI Bank.

¹⁶⁰ 11 Net Profit Margin Ratio

This is the ratio of net profit to net sales. The concept of net profit is different from net operating profit. In 161 calculating the net profit, all Non-operating expenses and losses are also deducted and all non-operating income 162 is added. The net profit ratio is the overall measure of a firm's ability to turn each rupee of business income 163 into profit. It indicates the efficiency with which a business is managed. A firm with a high net profit ratio is in 164 an advantageous position to survive in the face of cost of firm .where the net profit is low, the firm will find it 165 difficult to withstand these types of adverse conditions. Hypothesis H 0 = There is no significance difference of 166 Net profit ratio in selected HDFC Bank and ICICI Bank. H 1 = There is a significance difference of Net profit 167 ratio in selected HDFC Bank and ICICI Bank. 168

¹⁶⁹ 12 It's computed as,

170 13 Net profit margin = Net Profit Business Income

14 Where, Net profit = Net operating Profit + Non-operating Incomes-Non-operating Expenses Business Income = Inter est earned

174 15 Return on Total Assets Ratio

Return on assets (ROA) is an indicator of how profitable a company is relative to its total assets. ROA gives a manager, investor, or analyst an idea as to how efficient a company's management is at using its assets to generate earnings. Return on assets is displayed as a percentage.

Businesses (at least the ones that survive) are ultimately about efficiency: squeezing the most out of limited 178 resources. Comparing profits to revenue is a useful operational metric, but comparing them to the resources a 179 company used to earn them cuts to the very feasibility of that company's' existence. Return on assets (ROA) 180 is the simplest of such corporate bang-for-thebuck measures. ROA is calculated by dividing a company's net 181 income by total assets. As a formula, it would be expressed as: The above table 5.1 indicates the Return on 182 Assets Ratio of the HDFC and ICICI Banks during the period of the study from 2015-16 to 2019-20. In HDFC 183 Bank the Ratio shows fluctuated trend. The average Profit Ratio of the HDFC Bank was 1.69 during the study 184 period. The ratio was the higher of 1.73 during 2016-17, where as it was the lower of 1.643 during 2018-19. In 185 case of ICICI Bank the Ratio shows decreasing trend during the study period. It was 1.735 in 2015-16 which 186 187 decrease to 0.272 in 2019-20 it was lowest. In HDFC Bank the Ratio was higher during the study period, Hence 188 the performance of HDFC bank is good than ICICI Bank in the year. Return

189 16 Return on Assets

190 17 Year

¹⁹¹ 18 Return on Assets

192 HDFC Bank

193 **19 ICICI Bank**

Hypothesis H 0 = There is no significance difference of Return on assets ratio in selected HDFC Bank and ICICI Bank.

H = There is a significance difference of Return on assets ratio in selected HDFC Bank and ICICI Bank.

¹⁹⁷ 20 Return on Capital Employed

The term investment may refer to total assets or net assets. The funds employed in net assets are known as capital employed. Net assets equal net fixed assets plus current assets minus current liabilities excluding bank loan. Alternatively, capital employed is equal to net worth plus total debt.

²⁰¹ 21 Return on Capital Employed

$_{202}$ 22 =

203 Net Profit Before Interest and Tax Capital Employed

204 Significance:

? The success of enterprise is judge with the help of this ratio. ? It is perhaps the most important ratio from the viewpoint of management. The above table 5.1 indicates the Capital Employed Ratio of the HDFC and ICICI Banks during the period of the study from 2015-16 to 2019-20. In HDFC Bank the Ratio shows fluctuated trend. The average Profit Ratio of the HDFC Bank was 1.788 during the study period. The ratio was the higher of 1.83 during 2015-16, where as it was the lower of 1.72 during 2018-19. In case of ICICI Bank the Ratio shows fluctuated trend during the study period. It was 0.171 in 2015-16 which decrease to 0.289 in 2019-20 it was lowest. In HDFC Bank the Ratio was higher during the study period, Hence the performance of HDFC bank is

212 good than ICICI Bank in the year.

213 23 Hypothesis:

H = There is no significance difference of Return on capital employed ratio in selected HDFC Bank and ICICI Bank. H 1 = There is a significance difference of Return on capital employed ratio in selected HDFC Bank and

²¹⁵ Dank. If 1 = 216 ICICI Bank.

217 24 Findings

The findings of the study reveal that the gross profit ratio is found to be higher in HDFC Bank. This indicates that HDFC Bank has better profit earning capacity. Nonetheless, the net profit ratio in both the bank is found to be similar. This denotes both the banks have the same profit margin. Moreover, the results of the study demonstrate that the return on assets ratio is higher in HDFC bank. This indicates the return on assets earned by the bank is higher. Notably, the Net profit ratio is similar in both the banks. This indicates the banks have same earning capacity.

In terms of the return on capital employed, the study reveals that it is higher in HDFC bank. This indicates that the bank has better earning capacity of return on capital employed than ICICI bank. Overall, the profitability performance of HDFC bank is higher in terms of profit ration, and the bank possesses better earning capacity than ICICI bank. When compared to ICICI bank, HDFC bank stands better in almost all aspects of profitability performance. Nevertheless, ICICI bank can multiply return on assets by increasing assets or by increasing profitability of the bank. Profitability may be increased by granting more loans, earning higher interest on loans and passing the same to depositors.

²³¹ **25 XI**.

232 26 Conclusion

The study aimed at analyzing and measuring the profitability performance of HDFC bank and ICICI bank. 233 The results of the study reveal that HDFC bank profitability performance is better and higher than ICICI bank. 234 Overall, the HDFC Bank is generating more profitability in this comparison. The similar steps can be adopted by 235 ICICI Bank in order to earn profit capacity. In ICICI Bank, average gross profit ratio is lower than HDFC Bank. 236 To increase the gross profit, the bank should control the costs and expenses associated with bank operations. In 237 comparison to ICICI bank, performance of the HDFC bank during the study period can be described as dynamic 238 and flexible in attracting profit; ICICI bank can take suggestion from HDFC bank also. Average Net Profit 239 Margin ratio is lowest in ICICI Bank. The net profit ratio indicates the efficiency and advantageous position to 240 cover the cost. So it is suggested that ICICI Bank should increase its income and reduce its expenses to maximize 241 the profit. 242 Net profit ratio of the HDFC bank is continuous in increasing trends and ICICI bank should examine the 243

strategies employed by HDFC bank. ICICI bank should reduce variable cost and improve the customer loyalty and improve services offered to customers. According to return on total assets, total assets of both banks are

and improve services onered to customers. According to return on total assets, total assets of both banks are
 nearby the same but earning capacity of the ICICI bank is lower. Therefore, ICICI bank has to invest its cash in order to give maximum benefits to ICICI bank and charge more interest from the beneficiary companies.

1

Figure 1: Table 1 :

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$\mathbf{2}$

Gross Profit Ratio

Ratio	20 25			
Gross	$0\ 5\ 10\ 15$			HDFC Bank
Profit				ICICI Bank
	2015-16	2016-17	2017-18	20182019-20
				19
			Year	
			Profit Ratio	
		Two-Sample	Assuming Equal Varia	ances
	t-Test: Two-Sample Assumi	ng Equal Vari	ances	
	Particulars		HDFC GP Ratio (%)	ICICI GP Ratio
				(%)
	Mean		19.678	14.368
	Variance		5.23287	1.92382
	Observations		5	5
	df		8	

Figure 2: Table 2 :

3

		HDFC Bank			ICICI Bank	
Year	NP	Business In-	Ratio	NP	Business In-	Ratio
		come	(%)		come	(%)
2015-16	10215.92	48469.90	21.07	33375.35	49091.14	22.76
2016-17	12296.21	60221.45	20.41	9726.29	52739.43	18.44
2017-18	14549.04	69305.96	20.99	9801.09	54156.28	18.09
2018-19	17486.73	80241.36	21.79	6777.42	54966.89	12.33
2019-20	21078.17	98972.05	21.29	3363.30	63401.19	5.304
Maximum 21078.17		98972.1	21.79	33375.4	63401.2	22.76
Minimum 10215.92		48469.9	20.41	3363.3	49091.1	5.304
Mean	15125.21	71442.1	21.11	12608.7	54871	15.3848
(Sources: Compute fro						

Figure 3: Table 3 :

Ĩ		
	Profit Ratio	
	Two-Sample	
	Assuming Equal	
	Variances	
	Two-Sample Assur	ming Equal Variances
Particulars	HDFC NP Ratio	ICICI
	(%)	NP
		Ra-
		tio
		(%)
Mean	21.11	15.3848
Variance	0.2502	45.50007
Observations	5	5
df	8	
t Stat	1.892687	
t Critical one-tail	1.859548	
$P(T \le t)$ two-tail	0.095032	
t Critical two-tail	2.306004	
(At 0.05% level of Significance)		
Above table number 2 shows the result of t-test		
according to that calculated value of 't' is 1.8926, while		
table value of 't' is 2.306 which is less than the		
calculated value. So, null hypothesis is accepted and		
alternative hypothesis is rejected at 5% level of		
significant. It shows that there is no significance		
difference in Net Profit Ratio of HDFC Bank and ICICI		
Bank.		
X7TTT		

VIII.

Figure 4: Table 4 :

HDFC Bank

$\mathbf{5}$

Year						
	Return on Assets	Total Assets Ratio	Return on .	Assets Total	Assets Ratio	(%)
2015 - 16	10215.92	590503.07	1.730	11175.35	826079.18	1.353
2016-17	12296.21	708845.57	1.734	9726.29	915938.73	1.062
2017-18	14549.04	863840.20	1.683	9803.09	982659.54	0.997
2018-19	17486.73	1063934.31	1.643	6777.42	1121253.40	0.604
2019-20	21078.17	1244540.59	1.694	3363.30	1235723.90	0.272
Maximum	21078.17	1244540.6	1.734	11175.4	1235724	1.353
Minimum	10215.92	590503.07	1.643	3363.3	826079	0.272
Mean	15125.21	894332.75	1.6968	8169.09	1016331	0.857

ICICI Bank

[Note: (Sources: Compute from Annual Report of HDFC Bank and ICICI Bank.)]

Figure 5: Table 5 :

 $\mathbf{4}$

6

t-Test: Two-Sample Assuming Equal Variances		
Particular	HDFC Return on As-	ICICI
	sets Ratio $(\%)$	Return
		on Assets
		Ratio (%)
Mean	1.6968	0.8576
Variance	0.001395	0.178468
Observations	5	5
df	8	
t Stat	4.424657	
$P(T \le t)$ one-tail	0.001106	
t Critical one-tail	1.859548	
$P(T \le t)$ two-tail	0.002213	
t Critical two-tail	2.306004	
(At 0.05% level of Significance)		
IX.		

Figure 6: Table 6 :

$\mathbf{7}$

Year	Return Capital Employed	on	HDFC Bank Capital Employed	Ratio	Return on Capital Employed	ICICI Bank Capital Employed	Ratio (%)
2015-16	10215.92		558018.61	1.83	11175.35	684417.62	0.171
2016-17	12296.21		672120.44	1.82	9726.29	766103.94	1.269
2017-18	14549.04		807130.88	1.80	9803.09	807306.22	1.214
2018-19	17486.73		1018170.59	1.72	6777.42	928808.18	0.729
2019-20	21078.17		1189432.3	1.77	3363.30	1161783.76	0.289
Maximum	21078.17		1189432.3	1.83	11175.4	1161784	1.269
Minimum	10215.92		763860.13	1.72	3363.3	684418	0.171
Mean	15125.21		848974.56	1.788	8169.09	869684	0.7344

[Note: (Sources: Compute from Annual Report of HDFC Bank and ICICI Bank.)]

Figure 7: Table 7 :

8

Two-Sample Assuming Equal Variances

t-Test: Two-Sample Equal Variances			
Particulars E		eturn On Capital	ICICI
			Re-
			turn
			On
			Capi-
			tal
	Employee	d Ratio (%)	Employed
			Ratio
			(%)
Mean		1.788	0.7344
Variance		0.00197	0.257911
Observations		5	5
df		8	
t Stat		4.621401	
$P(T \le t)$ one-tail		0.000854	
t Critical one-tail		1.859548	
$P(T \le t)$ two-tail		0.001707	
t Critical two-tail		2.306004	
(At 0.05% level of Significance)			
Above table number 8 shows the result of t-te		,	ull hypothesis is rejected and
according to that calculated value of 't' is 4.62			is accepted at 5% level of
table value of 't' is 2.306 which is greater than	n the	significant. It shows th	at there is a significance

Figure 8: Table 8 :

X. HDFC Bank ICICI Bank

Figure 9: on Capital Employed Year Return on Capital Employed

26 CONCLUSION

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