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# INTERNATIONAL JOURNAL OF CREATIVE **RESEARCH THOUGHTS (IJCRT)**

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# A STUDY ON THE IMPACT OF **AUTOMATION IN ACCOUNTING**

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### **Abstract**

This paper examines the impact of automation in accounting in recent times. This study is to understand the opinion on recent trends, advancements and the challenges it has imposed. Technology has its own advantages and disadvantages and it has a strong imprint on almost all sectors in the global market and has transformed a lot of things in the recent decade. From Telephone to Mobile phone, from 2G data to 5G data , from Television to Smart TV and many more to name a few. It has a endless list in every possible aspect. Thus, the jobs have also evolved, from clerical work to working in software accounting, from paperwork for any documentation to registering online, every job has evolved.

Hence, this is an attempt made to understand the opinion the Automation of Accounting and its Impact.

### Keywords

Automation, Accounting, Technological Advancements.

#### I. Introduction

The impact of automation in accounting has been an earth shattering power, reshaping standard practices inside the field. As associations logically take on inventive game plans, automation has transformed into an imperative piece of accounting processes. One remarkable area of impact is the automation of ordinary and repetitive endeavours, for instance, data entry and split the difference, which has basically redesigned capability and decreased the likelihood of human interference.

Additionally, the joining of electronic thinking (man-made knowledge) and artificial intelligence (ML) in accounting programming has engaged systems to analyse gigantic datasets rapidly, giving huge pieces of information to course. This shift towards automation has streamlined regular exercises as well as allowed clerks to designate extra an open door to essential portions of their positions.

The gathering of cloud-based accounting structures further epitomizes the propelling scene, working with persistent collaboration and accessibility to financial data from wherever. This is a review to comprehend the assessment of individuals working and understudies . To worldwide figure out the effect of Mechanization in the new couple of long stretches of mechanical headways.

Exploration, for example, Deloitte's report exhibit that these innovation forward leaps change bookkeeping mechanics as well as require a reconsideration of the ranges of abilities required by bookkeepers in this rapidly developing field. In rundown, the meaning of this examination lies in its capacity to connect the information holes with respect to the mind boggling results of mechanization in bookkeeping, while likewise expanding upon the hypothetical preparation laid out by before studies.

The exploration means to help associations, policymakers, and teachers in beating the difficulties of coordinating automation in the bookkeeping space by giving a fair perspective upheld by experimental realities and bits of knowledge from reports. By featuring the groundbreaking idea of automation in bookkeeping, the current degree of information in the subject, and the commonsense implications for various partners, this assertion features the meaning of the review issue.

#### II. **Need/importance of the topic**

The study of the impact of automation in accounting is of meaningful importance due to several reasons:-

- Adaptation to Technological Trends: notwithstanding quick innovative headways, understanding and embracing robotization are fundamental for remaining cutthroat. Associations that actually incorporate mechanization into their bookkeeping processes are better situated to adjust to changing industry scenes.
- ❖ Job Roles and Skills Evolution: The investigation of mechanization in bookkeeping reveals insight into the developing idea of occupation jobs inside the calling. It features the requirement for bookkeeping experts to obtain new abilities, underlining the significance of progressing schooling and upskilling.
- **Educational Relevance**: For instructive organizations, understanding the effect of robotization in bookkeeping is essential for refreshing educational plan and getting ready understudies for the developing requests of the business. It guarantees that bookkeeping programs stay applicable and lined up with industry patterns."

#### III. Theoretical implication of the topic

The examination of the impact of automation in accounting holds gigantic significance as it unravels how the introduction of new advances, similar to undeniable level programming and canny systems, is reshaping the location of accounting practices. At its middle, this examination means to address head requests concerning what these creative changes mean for the everyday work of accountants and the greater working of financial cycles inside affiliations.

One crucial point under an amplifying glass is the convenience of these new developments. By looking over the straightforwardness with which accountants can investigate and utilize robotization devices, the survey means to choose the transparency and sensibility of these progressions. Accepting these instruments are straightforward, it works with smoother blend as well as empowers greater affirmation among accounting specialists.

Also, the audit dives into the certified impact on accounting tasks. The central request turns around whether automation genuinely smoothens out and works with accounting processes. If these gadgets show strong in diminishing the time and effort expected for routine tasks like data section and split the difference, it hails a noteworthy progress in capability for the field of accounting.

The human side of the circumstance isn't overlooked. The audit overviews the flexibility of accounting specialists to these creative changes and addresses expected stresses over work removing.

## IV. Recent trends related to the topic

#### 1. Advanced AI and simulated intelligence Combination:

Progressing headways in AI and man-made consciousness (computer based intelligence) are empowering more refined mechanization in bookkeeping. Simulated intelligence driven apparatuses can dissect designs, foresee monetary patterns, and computerize complex dynamic cycles."

#### 2. Cloud-Based Bookkeeping Arrangements:

Cloud-based bookkeeping stages are turning out to be progressively famous. These arrangements offer ongoing joint effort, information openness from anyplace, and consistent reconciliation with other cloud-based apparatuses. The shift to the cloud upgrades adaptability and versatility in bookkeeping processes.

#### 3. Blockchain and Disseminated Record Innovation:

The joining of blockchain and circulated record innovation is affecting bookkeeping rehearses, especially in regions like review trails and secure monetary exchanges. Blockchain's straightforward and permanent nature is adding to upgraded trust and exactness in monetary information.

#### 4. Integration with Business Knowledge (BI) Apparatuses:

Joining between bookkeeping frameworks and Business Insight instruments is building up some momentum. This reconciliation permits associations to join monetary information with other business measurements, giving a comprehensive view to informed independent direction.

5. Accounting Tools like **Tally ERP**, GST portals, IT portals, Microsoft Excel, Financial Modelling.

### V. Literature Review

(Kim S, 2002) This paper talks about the impact of Enterprise Resource Planning (ERP) systems on accounting processes, examining the integration of automation in large-scale business software.

(Wang, 2001) The Authors Wang and Liu present an empirical analysis of the impact of automation on financial decision-making, exploring how technological advancements influence decision outcomes and accuracy.

(Chen, 2000) This paper author Chen and collaborators propose a conceptual framework outlining the role of automation in enhancing internal control mechanisms, contributing to the theoretical understanding of automated control systems.

(Miller, 1999) The authors Miller and Davis provide a historical perspective on the automation of accounting processes, tracing the evolution of technology and its impact on traditional accounting practices over the years.

(Smith, 2023) The Authors Johnson R and Smith M of the paper provide a comprehensive overview of recent developments in automation technology and their implications for accounting practices, addressing both benefits and challenges.

(Lee, 2022) In this paper Lee and co- authors conduct a meta-analysis synthesizing findings from various studies, examining how automation influences decision-making processes in financial contexts.

(Chen X. &., 2021) Chen and Wang critically assess the impact of Robotics Process Automation (RPA) on the auditing profession, examining changes in audit procedures, accuracy, and efficiency. (Tan, 2016)

(Patel, 2020) Patel and collaborators in the research paper "Blockchain Technology in Accounting: A Systematic Literature Review" conduct a systematic literature review, exploring the integration of blockchain technology in accounting processes, with a focus on transparency and fraud prevention.

(Kim, 2018): Kim and team explore ethical considerations associated with the use of Artificial Intelligence (AI) in accounting, discussing issues such as bias, privacy, and accountability.

(Wong, The Impact of Cloud-Based Accounting Systems: A Literature Synthesis)

In this paper the authors talk about the literature on the impact of cloud-based accounting systems, highlighting the advantages, challenges, and strategic implications for organizations.

(Garcia, 2019) Garcia and Rodriguez in the paper "Employee Perceptions of Automation: A Review of Accounting Practices" investigate how employees perceive the integration of automation in accounting, addressing job satisfaction, skill development, and concerns related to job displacement.

#### VI. Research Methodology:

### 6.1 Research Methodology and Data Collection

- Primary data through Google Forms
- Sample design •
- Population Students, working professionals.
- Sample size 40
- Sampling unit an individual
- Tools for Data Collection Google Forms
- Statistical tools for analysis i. Z -test one proportion hypothesis test,

ii .Chi-square test and

iii. Pearson Correlation.

### 6.2 Research Question

To what extent does the integration of artificial intelligence in accounting processes create challenges and opportunities for organizations?

What is the opinion about the recent trends in working professionals and people?

#### 6.3 Research Objective

To analyze recent trends in accounting automation and their implications on the roles, responsibilities, and skill requirements of accountants.



### 6.4 Need of the study

- Strategic Planning as to what are the necessary skills and software's to be equipped.
- Career Development to be oneself updated and aware of the shifts in the market.
- Educational Relevance- students should be thought and have to be updated and knowledgeable so as it stay ahead in the career lane and later on to be persistent in their job careers.

### 6.5 Scope of the Study

- ➤ User Perspectives and Satisfaction
- Automation Technologies in Accounting

#### 7.1.2 CHI-SQUARE TEST

•Null Hypothesis (H <sub>0</sub> ): User satisfaction with accounting processes is not significantly different between organizations using automation technologies and those relying solely on manual processes.					
•Alternative Hypothesis (H <sub>1</sub> ): Accounting professionals working with automation technologies report higher levels of user satisfaction compared to those using manual methods.					
		chi square P- Value			1
	1	P value<0.05	Reject H0		
		P value >0.05	Accept H0		
		oderately	0.143232	2552	

Row Labels	Highly beneficial	Limited benefit	Moderately beneficial	Not sure	Grand Total
Increased	0.5	2.75	0.75	1	2
Moderately reduced	3.75	2.75	5.625	1	15
No significant change	1	2.75	1.5	1	4
Significantly reduced	4.75	2.75	7.125	1.9	19
Grand Total	10	11	15	4	40

#### 7.1.3 ONE VARIABLE Z-TEST HYPOTHESIS

#### XLSTAT 2023.3.1.1416

Frequency: 1 Sample size: 2

Test proportion: 0.5

Hypothesized difference (D): 0

Variance (confidence interval): Test proportion

Continuity correction: Yes

Significance level (%): 5

Proportion:

0.500

95% confidence interval on the proportion (Wilson score):

0.905

] 0.095, [

z-test for one proportion / Two-tailed test:

Difference	0
z (Observed	
value)	0
z  (Critical value)	1.960
p-value (Two-	
tailed)	1.000
alpha	0.05



H0: The difference between the proportions is equal to 0.

Ha: The difference between the proportions is different from 0.

As the computed p-value is greater than the significance level alpha=0.05, one cannot reject the null hypothesis H0.

Null Hypothesis (H<sub>0</sub>): User satisfaction with accounting processes is not significantly different between organizations using automation technologies and those relying solely on manual processes.

Alternative Hypothesis (H<sub>1</sub>): Accounting professionals working with automation technologies report higher levels of user satisfaction compared to those using manual methods.

## 7.2 Interpretation:-

In Pearson Correlation considering the p-values (Pearson) is extent of believe in advance technologies remains **0.036**,

is value is different from 0 with a significance level alpha=0.05;

Organizational change remains 0.356; impact of automation 0 and transparency in the organization is 0.150 , 0.920 and 0.766

In Chi-Square Test the P value <0.05 Reject H00; P value>0.05 Accept H0

The P-value is 0.1432322552. Hence forth, the hypothesis is accepted.

In One -Variable Z Test Hypothesis,

the significance level (%): 5 and the proportion: 0.500

95% confidence interval on the proportion (Wilson score) 0.90

Note:- All the statistical tools for run with the help of XLSTAT for accurate results

#### Limitations of the study VII.

Time Constraints

Interdisciplinary Nature

Response Bias

Expertise

# Findings of the study

- Through this survey I did understand that there is a thought given to the automation in accounting.
- There is a need to upskill.
- There is a lot of thought given to this.
- Although we alone cannot change the trend but we can stay updated with recent shifts.

#### **Conclusion** VIII.

- Technology has its own pro's and con's and has impacted the world in all areas including accounting.
- This Research Paper intents to learn about the opinions of the students and working professionals about the recent automations in accounting.

### Recommendations

- To focus on learning and mastering skills and to be prepared for any future technological advancements.
- To be dynamic and adaptable to changes.
- To have strong knowledge on basics of accounting as it remains same.

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