

# A Study on the Future of Accounting: How AI will Change the Profession

**Mrs. Zaibunnisa Pathan and Mr. Nizamuddin Shaikh,**  
Assistant Professor, Department of Accountancy  
KLE Society's Science and Commerce College, Kalamboli.

**Abstract: Purpose:** *This study aims to explore how Artificial Intelligence (AI) is influencing the accounting profession. It seeks to understand the effect of AI on employment opportunities in accounting and to analyze how AI contributes to improving efficiency, accuracy, and decision-making in accounting activities.*

**Design/Methodology/Approach:** *The research employed a survey methodology, gathering responses from 121 individuals to gain a better understanding of the application of AI in accounting.*

**Finding:** *The results of the study indicate that AI plays an important role in improving the speed and accuracy of accounting tasks such as bookkeeping, data entry, financial analysis, and report preparation. The use of automation reduces the chances of human error and allows accountants to concentrate on advisory and strategic responsibilities. At the same time, the study highlights that although some traditional accounting roles may decrease due to automation, new career opportunities that require technological knowledge and analytical abilities are developing.*

**Practical Implications:** *The study emphasizes the need for accounting professionals to adjust to technological changes by learning skills related to AI, digital tools, and data analysis. It also suggests that educational institutions and organizations should provide proper training and support so that accountants can effectively use modern technologies and stay competitive in the changing professional environment.*

**Keywords:** Artificial Intelligence, Accounting Profession, Automation, Employment Impact, Efficiency.

## I. INTRODUCTION

The accounting profession is going through big changes because of new technology, especially Artificial Intelligence (AI). With the help of AI, many tasks like data entry, bookkeeping, analyzing large amounts of information and preparing financial reports are becoming faster and more accurate. AI is making accounting more efficient so accountants are able to focus more on giving advice and making important business decisions, rather than just doing basic calculations. AI also helping companies get real-time information about their financial health.

However, the rise of AI is also affecting jobs in the accounting field. Many tasks that were once done by humans are now being automated, As machines and software take over routine tasks, there may be few traditional accounting jobs available for human. This study will focus on how AI is impacting employment opportunities in accounting and how it is improving the accountants work by making processes faster, more accurate, and smarter.

## II. NEED OF THE STUDY

As Artificial Intelligence continues to transform the accounting profession, it is crucial to understand both the positive and negative impacts it has on the workforce. While AI promises to make accounting tasks more efficient, it also raises questions about job displacement and the future of traditional accounting roles. Investigating the effects of Artificial Intelligence on accounting-related jobs. This research will help clarify whether AI is creating new job types or simply



replacing human labor. Understanding these changes is important for accountants, firms, and policy makers to prepare for the future of work in this industry.

### III. SCOPE OF THE STUDY:

This study focuses on understanding how Artificial Intelligence (AI) is changing the accounting profession. It examines the impact of AI on employment opportunities, including the reduction of traditional jobs and the creation of new roles requiring advanced skills. The research also covers how AI tools are improving the efficiency, accuracy, and decision-making processes in accounting practices.

The study is mainly limited to the accounting profession but can be useful for businesses, accounting firms, and educational institutions looking to adapt to technological changes. It highlights the skills accountants will need in the future and provides insights into how firms can successfully integrate AI into their daily operations while balancing technology and human expertise.

### IV. OBJECTIVES

- 1) To assess the impact of AI on employment opportunities within the accounting profession.
- 2) To evaluate how AI can enhance the efficiency, accuracy, and decision-making processes in accounting.

### V. LITERATURE REVIEW

**A Singh - International Journal for Multidisciplinary Research, 2025** - In order to analyze how AI and automation will affect the accounting profession, this research investigated how the revolution in traditional accounting practices is being transformed by the use of AI-driven technologies. It also discussed how AI and automation are changing financial decision-making, fraud detection, and regulatory compliance while examining the evolving role of accountants in the AI-driven era and providing strategic recommendations to support professionals and organizations in adapting to these changes effectively. This study discovered various insights on the transforming role of AI and automation in accounting in modern times:

**Jamal Mohammad, S., Khamees Hamad, A., Borgi, H., Anh Thu, P., Safdar Sial, M., & Abdallah Alhadidi, A. (2020). How artificial intelligence changes the future of accounting industry. International Journal of Economics and Business Administration, 8(3), 478-488.** The main theme of the study relates to the assessment of the impact of artificial intelligence on accounting professionals, especially the upcoming generation of an accountant. The study aims to assess the effects of the introduction of AI-based systems in the field of accounting and answer the question of how it has changed the world of accounting professionals and to forward relevant suggestions to policymakers

**I Saleem, I Abdeljawad, AI Nour - Artificial Intelligence, Internet of Things ..., 2023** - The use of big data and artificial intelligence (AI) in the accounting and finance industry is a rapidly growing trend that has the potential to revolutionize the way accounting and finance professionals conduct their work. This study aims to explore the opportunities and challenges that big data and AI present for the accounting and finance professions. This research examines the current state of big data and AI in the accounting and finance industries, the potential benefits and risks associated with their implementation, and the challenges that need to be overcome in order to fully realize their potential. This concept paper includes an analysis of existing research on big data and AI in accounting and finance, including articles, reports, and studies from professional sources. The findings of this study are of interest to accounting and finance professionals, academics, and researchers, as well as policymakers and other stakeholders who are interested in understanding the implications of big data and AI for the accounting and finance industry.

### VI. RESEARCH METHODOLOGY

**Research Design:** This study will employ a mixed-methods approach, integrating quantitative and qualitative data collection and analysis, to comprehensively investigate the research question and objectives.



**Data Sources:** The study will primarily rely on survey methods for data collection, encompassing both primary and secondary sources. Primary data will be gathered through questionnaires, while secondary data will be drawn from sources like research journals, and websites.

**Sample Size:** The analysis will be based on a sample of 121 participants.

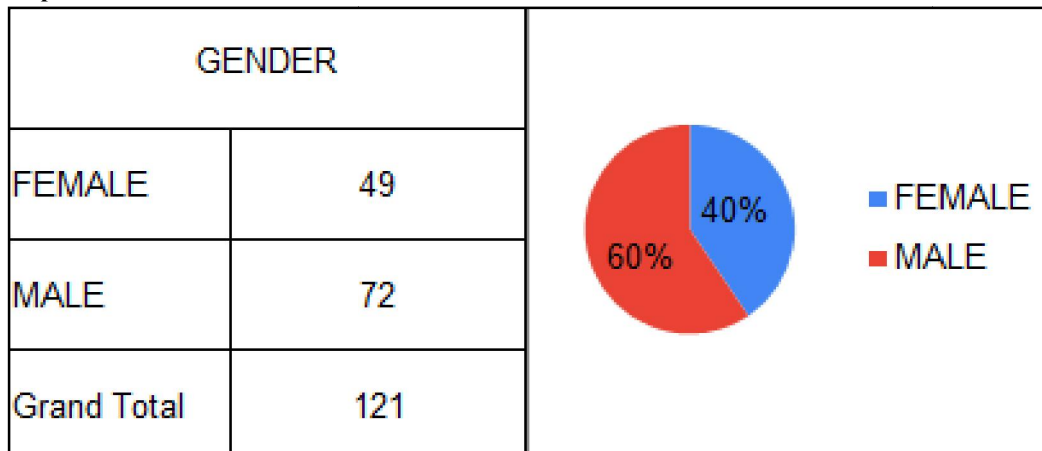
**Sampling Technique:** Convenience sampling will be employed for participant selection.

**Data Analysis Tools:** Data will be visually presented using tools such as pie charts and percentages.

**Limitations of the Study:** This study is constrained by its focus on Mumbai city due to time limitations. Additionally, it is limited to Accountant, Students, Teachers and IT professionals and the sample size used is relatively small

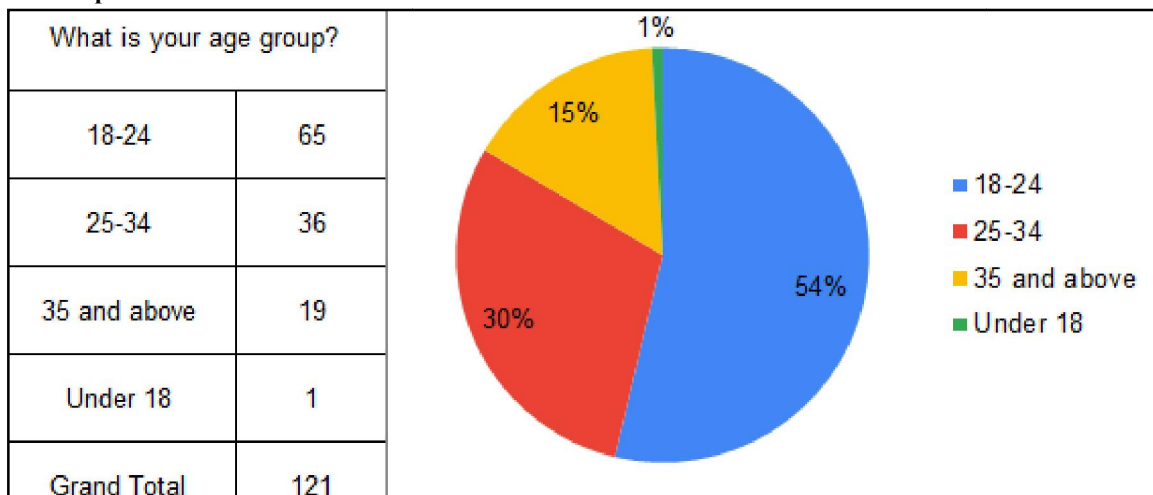
## VII. DATA ANALYSIS & INTERPRETATION

### Data Interpretation - 1



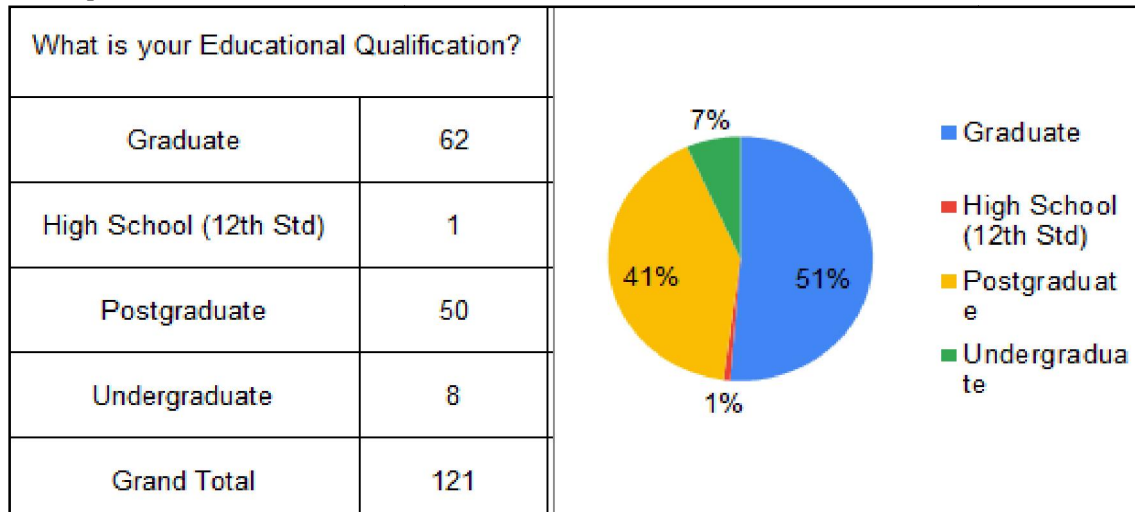
The data shows that out of a total sample size of 121 individuals, 49 are female, while 72 are male, indicating a slightly higher representation of male in the sample.

### Data Interpretation - 2



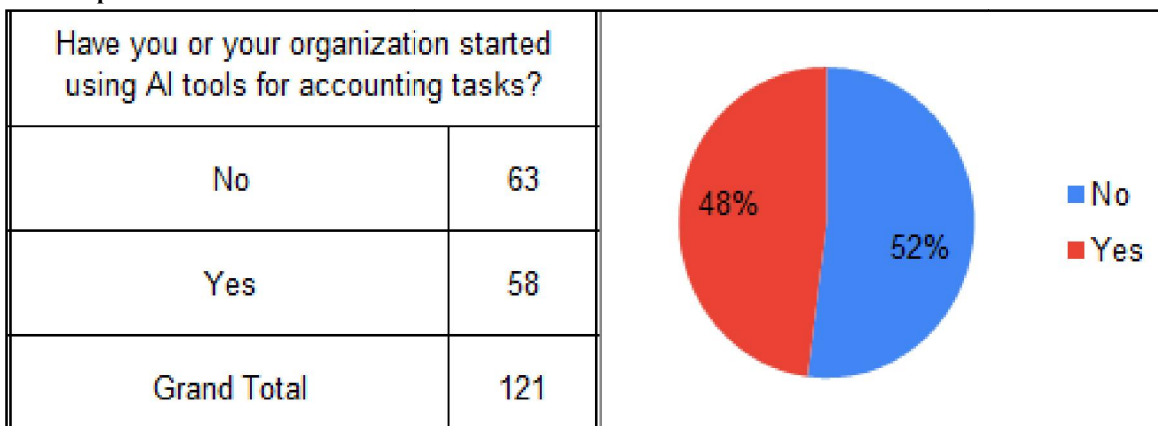
The data reveals the age distribution of the 121 individuals in the research sample. The largest age group is 18-24, with 65 individuals falling into this category, suggesting a significant representation of young adults. There are fewer participants in the other age groups, with 36 individuals aged 25-34 and 19 individuals aged 35 and above, while only one participant is under 18.

**Data Interpretation - 3**



The data provides insights into the educational qualifications of the 121 individuals in the research sample. The majority of participants fall under the "Graduate" category, with 62 individuals holding this level of education. This is followed by "Postgraduate" (50 individuals) and "Undergraduate" (8 individuals), while only 1 individuals have a "High School (12th Std)" qualification.

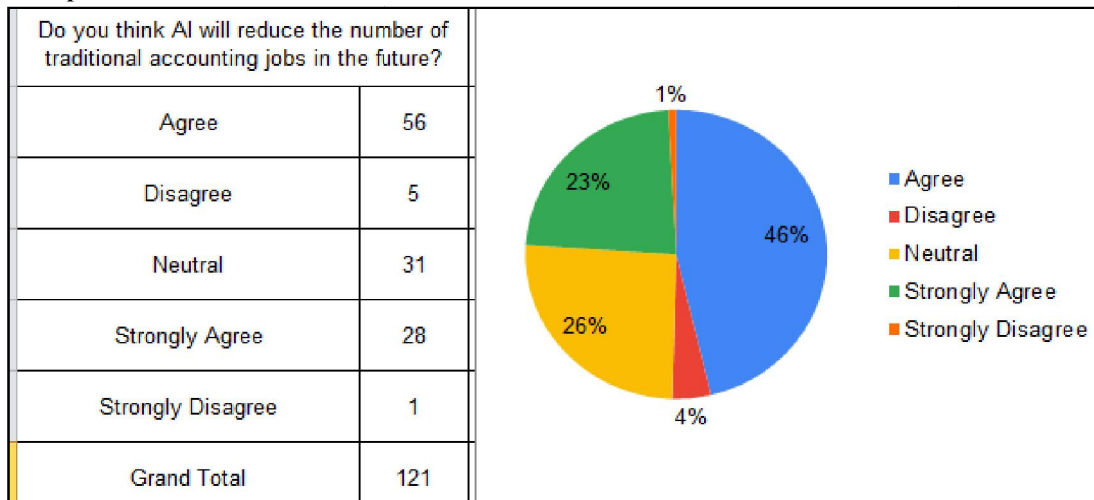
**Data Interpretation - 4**



Responses show a mixed trend. A significant number of respondents reported that AI tools are already being used, while many others indicated No. This suggests that AI adoption in accounting is growing but not yet universal, especially among smaller organizations or students.

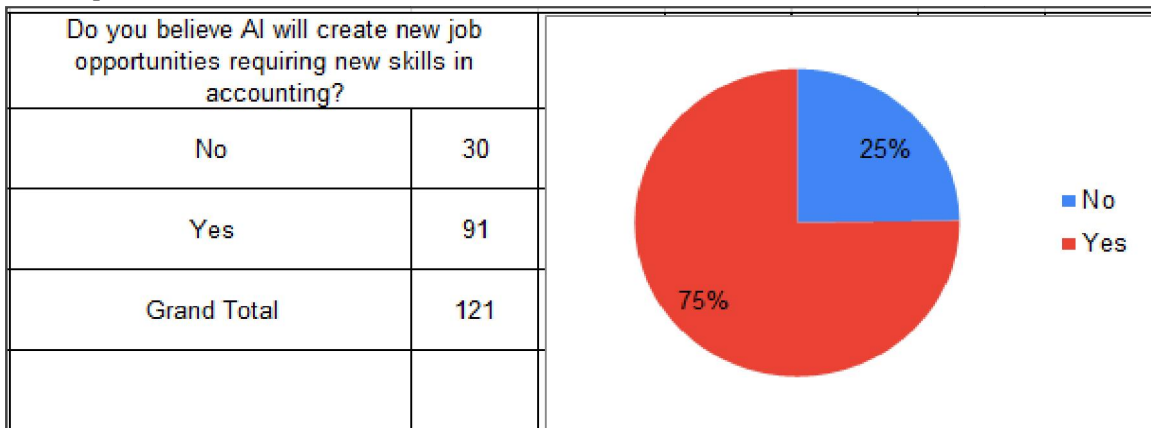


**Data Interpretation - 5**



The majority of respondents agree that AI will reduce traditional accounting jobs. Many participants selected Agree or Strongly Agree, indicating a strong perception that automation may replace routine roles. However, a small number of respondents disagreed or remained neutral, showing some uncertainty about the extent of job reduction.

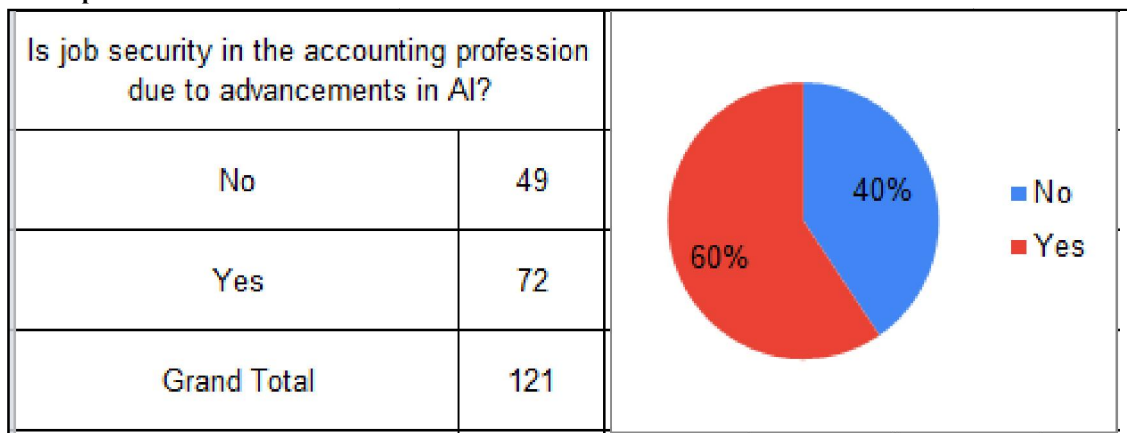
**Data Interpretation - 6**



Most respondents answered Yes, showing a positive outlook toward AI. This indicates that while AI may reduce some jobs, it is also expected to create new roles that require technical and analytical skills.

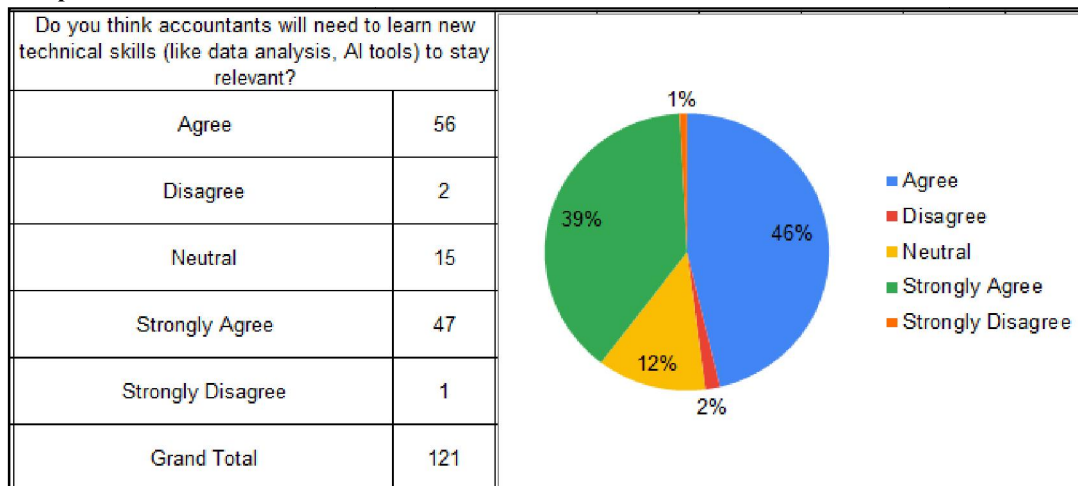


**Data Interpretation - 7**



A large number of respondents expressed concern about job security, indicating that AI advancements are creating uncertainty in the profession. However, some respondents were neutral or unsure, reflecting mixed opinions.

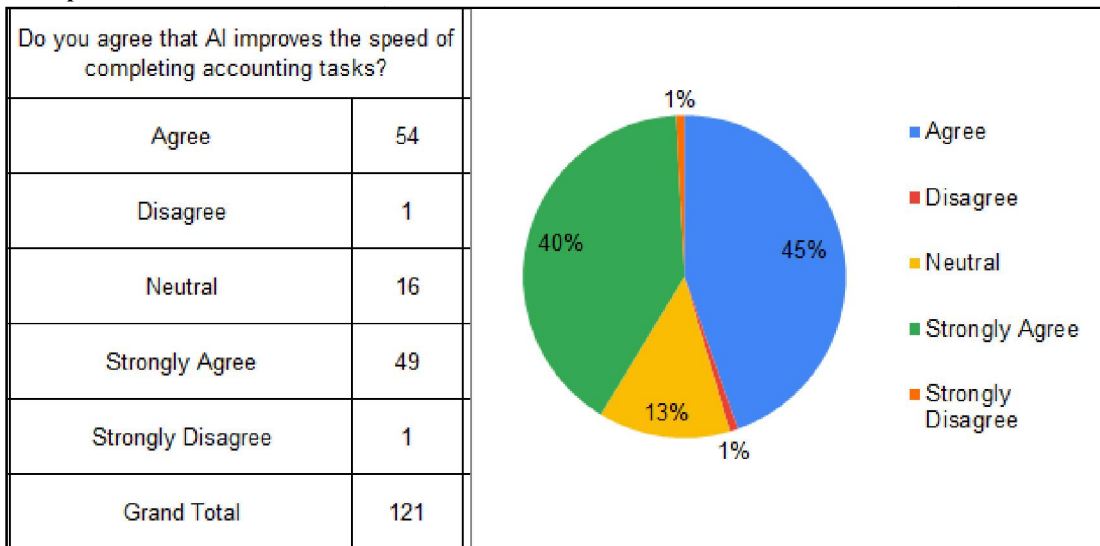
**Data Interpretation - 8**



The majority strongly agreed with this statement. This clearly shows that respondents believe skill development is essential for future accountants to remain competitive in an AI-driven environment.

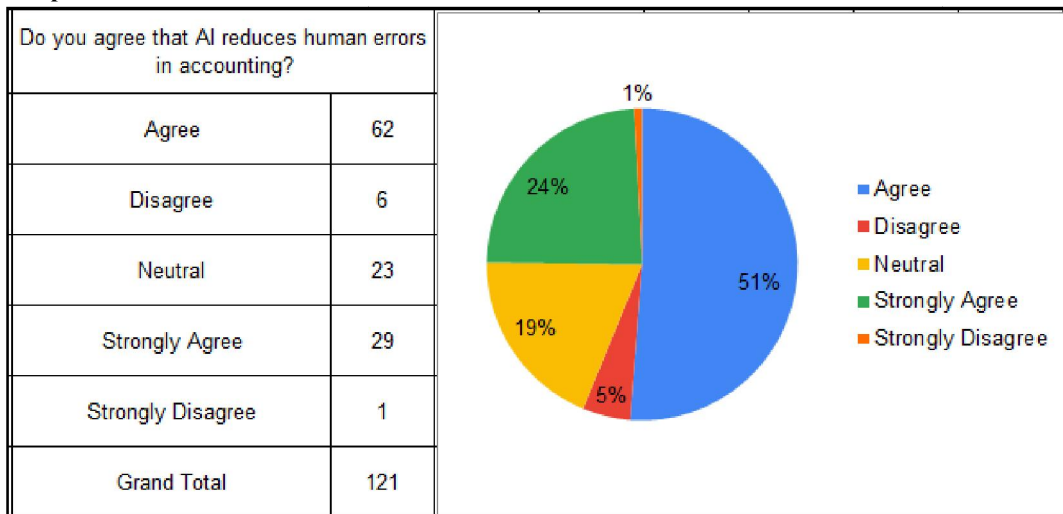


**Data Interpretation - 9**



Most respondents selected Agree or Strongly Agree, indicating that AI is widely recognized for increasing the speed of accounting processes.

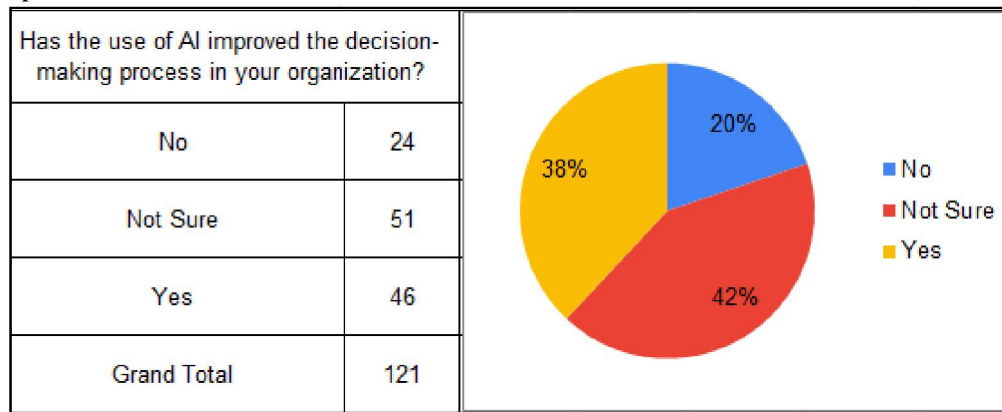
**Data Interpretation - 10**



A strong majority agreed that AI helps in reducing errors. This highlights trust in AI systems for improving accuracy in financial data and reporting.

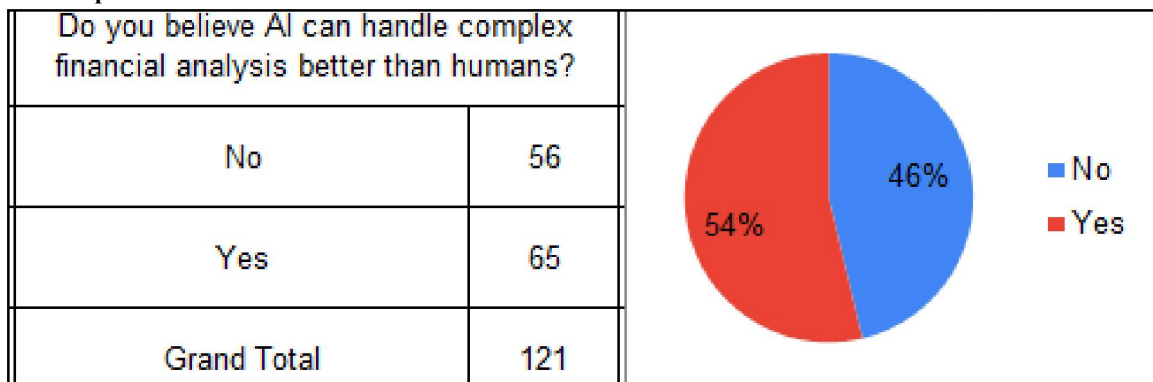


**Data Interpretation - 11**



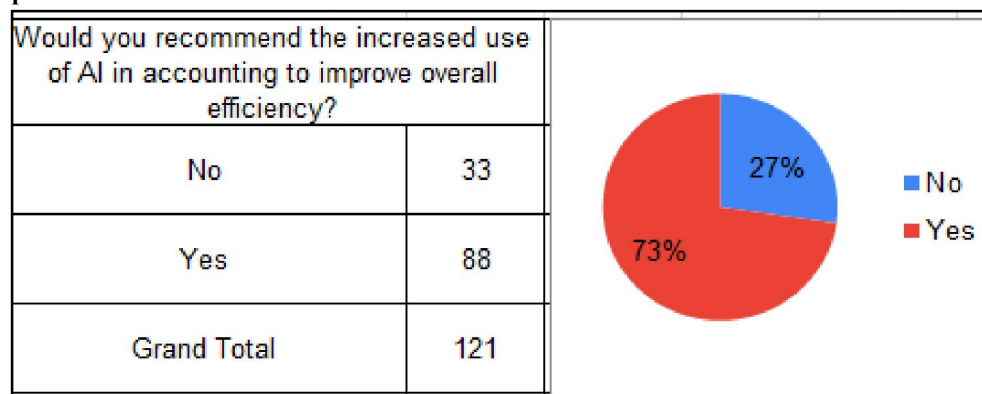
Many respondents answered Yes or Not Sure. This suggests that while AI is seen as helpful, its full impact on decision-making is still developing and may depend on the level of implementation.

**Data Interpretation - 12**



Responses were mixed. Some agreed that AI can handle complex analysis, while others disagreed or were unsure. This indicates that human expertise is still considered important for complex decision-making.

**Data Interpretation - 13**



Most respondents supported the increased use of AI, showing a positive attitude toward technology adoption in accounting for better efficiency and performance.

### VIII. FINDING OF THE STUDY

The findings of the study indicate that Artificial Intelligence (AI) is significantly influencing the accounting profession. A majority of respondents believe that AI will reduce traditional accounting jobs by automating routine tasks such as data entry and bookkeeping. The study also reveals that while there are concerns about job security, many respondents believe that AI will create new job opportunities that require advanced technical and analytical skills.

Furthermore, the study highlights that AI plays an important role in improving the efficiency and accuracy of accounting practices. Most respondents agree that AI helps in completing tasks faster and reduces human errors. It also supports better decision-making by providing timely and reliable financial information, although some respondents are still uncertain about its full impact. Overall, the findings show a positive attitude toward the use of AI in accounting, along with the need for accountants to develop new skills to adapt to technological advancements.

### IX. CONCLUSION

The study concludes that Artificial Intelligence (AI) is bringing major changes to the accounting profession. It is helping to automate routine tasks, making accounting work faster and more accurate. While this has raised concerns about the reduction of traditional job roles, it is clear that AI is not completely replacing accountants. Instead, it is changing the nature of their work by shifting the focus from basic tasks to more analytical and advisory roles.

At the same time, AI is creating new opportunities that require updated skills such as data analysis, use of digital tools, and strategic thinking. To remain relevant, accounting professionals must be willing to adapt and continuously upgrade their knowledge. Overall, AI can be seen as a valuable tool that improves efficiency and decision-making, but its successful use depends on how well individuals and organizations adjust to these technological advancements.

### REFERENCES

1. [https://www.researchgate.net/profile/Ashish-Singh/195/publication/390128251\\_The\\_Future\\_of\\_Accounting\\_How\\_AI\\_and\\_Automation\\_are\\_Changing\\_the\\_Profession/links/67e1870772f7f37c3e8aacec/The-Future-Of-Accounting-How-AI-And-Automation-Are-Changing-The-Profession.pdf](https://www.researchgate.net/profile/Ashish-Singh/195/publication/390128251_The_Future_of_Accounting_How_AI_and_Automation_are_Changing_the_Profession/links/67e1870772f7f37c3e8aacec/The-Future-Of-Accounting-How-AI-And-Automation-Are-Changing-The-Profession.pdf) A Singh - International Journal for Multidisciplinary Research, 2025
2. <https://www.um.edu.mt/library/oar/handle/123456789/63809> Jamal Mohammad, S., Khamees Hamad, A., Borgi, H., Anh Thu, P., Safdar Sial, M., & Abdallah Alhadidi, A. (2020). How artificial intelligence changes the future of accounting industry. International Journal of Economics and Business Administration, 8(3), 478-488.
3. [https://link.springer.com/chapter/10.1007/978-3-031-43300-9\\_27](https://link.springer.com/chapter/10.1007/978-3-031-43300-9_27) I Saleem, I Abdeljawad, AI Nour - Artificial Intelligence, Internet of Things ..., 2023 - Springer

