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Enhancing the Quality of Financial Analysis through the Application of Artificial Intelligence (ChatGPT): Opportunities and Challenges

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Abstract. The research is concerned with the subject of the future of the accounting profession in light of the development of the uses of artificial intelligence, specifically what relates to the function of interpreting accounting numbers published in the financial statements. Accordingly, the two researchers attempted to formulate a joint vision to study the challenges that the financial analyst can face in the transition to the contemporary world of digitization, which is beginning to impose... Its dimensions in various fields, practical fields, and various scientific and professional horizons. The research was based on the hypothesis that there is a statistically significant correlation between the development of artificial intelligence applications and the level of quality of financial reports provided by financial analysts. The research reached proof of the validity of such an assumption based on evidence that indicates the availability of the possibility to achieve the maximum benefit from artificial intelligence applications in interpreting the relationships between published accounting numbers for various business organizations.

Keywords: Financial Statement Analysis, Artificial Intelligence, ChatGPT.

INTRODUCTION

Just a few years ago, it would have seemed unimaginable that humans could engage in deep, meaningful conversations with a mere machine, one that could answer their questions or help solve complex mathematical problems. However, what might have seemed like science fiction is now a reality, achieved with remarkable precision through various applications, chief among them being what is commonly known as ChatGPT.

ChatGPT is an application of interactive artificial intelligence, launched by OpenAI in November 2022. It was equipped with over eight million files and ten billion words to enable it to engage in conversations with users that closely resemble everyday human interactions. This application not only answers various questions posed by users but also offers solutions and suggestions for resolving technical and mathematical problems. It even has the capability to create artistic works and designs when needed, all made possible by leveraging artificial intelligence technologies.

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Research Problem:

The research problem under investigation centers on the obsolescence of the methods and techniques currently employed in conducting financial analysis of published accounting data. These outdated approaches have a diminished role in accurately measuring and evaluating the performance of economic entities operating in the local environment, revealing their true financial conditions, and providing utility for making informed investment and credit decisions. Financial statements, without proper analysis of the figures they contain, may be difficult to utilize effectively due to the challenges in comprehending the informational content they present. This, in turn, complicates the process of obtaining indicators that identify the strengths and weaknesses in the performance and future prospects of these economic entities.

Research Objective:

The research aims to explore the potential of utilizing modern artificial intelligence applications to support and enhance the effectiveness of financial analysis processes for financial statements. It seeks to draw the attention of the management of commercial economic units operating in the local environment to this new form of knowledge and provide an opportunity to experience its outcomes. By doing so, the research intends to assess the feasibility of these applications and emphasize their significance as reliable tools that can be employed across various fields. The study also aims to highlight the potential impacts and implications of these technologies in improving decision-making processes, strengthening control, and evaluating performance within economic units.

Research Hypothesis:

To achieve the objectives of this research, the following main hypothesis will be tested: *(Most managements of commercial economic units operating in the local environment currently do not show significant interest in modern artificial intelligence applications in the financial analysis of financial statements, nor do they benefit from these applications in improving decision-making processes, enhancing control, and evaluating performance).

SECTION ONE: FINANCIAL ANALYSIS OF FINANCIAL STATEMENTS AND ARTIFICIAL INTELLIGENCE

Financial analysis, in essence, reflects an ongoing evaluation process of the performance of economic units, projects, and other related financial entities to gain a better understanding of their financial outcomes and the extent to which these outcomes align with predetermined objectives. Financial analysis is typically conducted by examining the evolution of the intricate relationships between the elements of financial statements. These statements are usually the result of processing the content of accounting records, which provide a detailed and summarized history of the entity's performance, including the volume and nature of revenue sources, expenses, costs, profits, and losses over a certain period. This information is highly valuable for comparisons with previous data of the same entity or with similar data from comparable economic units.

Financial statements and reports provide the solid facts upon which such analysis and conclusions are based. The benefits of analysis can be significant in scenarios such as making investment decisions or evaluating an ongoing merger process. Given the potential benefits, management of economic units is keen on gaining a competitive advantage by producing more accurate forecasts and making better and faster decisions. Often, the path to improving analysis lies in simulating the process of an expert with a track record of good decision-making, effectively extracting their knowledge, and applying it to the problem at hand.

1.1. Overview of Financial Analysis

The preparation of final accounts does not mark the end of understanding the financial performance and position of a company or entity. Such financial statements often contain numerous figures and data that may be incomprehensible to some, particularly those decision-makers within the entity or external investors who may not be familiar with accounting information. This is where the role of Financial Analysis comes into play, as it details various aspects related to understanding the present and future status of entities by analyzing the data from published financial statements.

Financial analysis involves interpreting the data presented in the financial statements of economic units and entities to gain a deeper understanding of the company's current or future situation. It is also employed to identify the best available investment opportunities sought by investors in a particular economic unit. Financial analysis guides the decisions made by senior management regarding necessary improvements and influences the decisions of other parties interacting with the unit, such as suppliers and creditors.

Furthermore, financial analysis can be likened to the diagnostic process performed by a doctor to identify the illness afflicting a patient and then prescribe the appropriate treatment. However, financial analysis focuses on employing mathematical and statistical methods to highlight aspects related to liquidity, profitability, activity, and financial leverage.

Financial analysis is utilized by various individuals or entities, including those interested in investing in or dealing with a particular unit, or even working within it. These include investors seeking to assess the feasibility of investing in the unit, suppliers, and creditors who wish to receive their payments promptly, as well as employees who want to understand the results of their efforts, determine the optimal level of their claims, and government agencies that oversee pricing and review unit statistics.

Financial analysis is not a simple or easy task that just anyone can perform; it requires some knowledge of accounting data and statements. The process involves numerous detailed and precise objectives, which may take time to achieve. Economic units or accountants must organize these statements before presenting them to financial analysts. Some of these objectives include:

- 1. Assessing Economic Unit Performance: It is challenging for internal managers or external investors to evaluate an economic unit's performance merely by looking at the volume of activities or profits it generates and distributes to investors. There are many underlying aspects that reveal the unit's performance and influence decisions by managers or external parties such as creditors, investors, and suppliers. For example, knowing the liquidity ratio will help a supplier decide whether to engage with the unit, and the same applies to other parties. This performance is reflected in various financial ratios, including profitability ratios, cash flows, return on investment, and equity ratios.
- 2. Decision Making: Financial analysis serves as a foundation for senior management to make long-term strategic decisions, such as choosing the most suitable financing method by comparing bank loans, creditors, equity, or other options. It also guides departmental managers in making current decisions. For instance, a low inventory or current asset turnover rate indicates poor management of inventory and assets, which will certainly impact the available liquidity for debt repayment and purchases.
- 3. Controlling All Aspects of the Unit: Financial analysis is the primary means for various parties to monitor the unit. Government institutions rely on it to regulate prices and ensure compliance with laws and regulations, such as the central bank's oversight of commercial banks. It also allows senior management to supervise other departments like inventory, procurement, and sales, which affect the unit's performance.

Financial analysis can be categorized into several types:

- Historical Analysis: Traditionally known as time-series analysis, this type helps to understand the continuous changes in a company's financial statements, thereby providing useful information to management for improving decision-making. It creates an environment conducive to better understanding the feasibility of reinvesting surplus funds, improving capital structure, reducing costs, enhancing attractiveness and competitiveness, minimizing borrowing risks, and integrating the overall impact of financial alternatives on investments in distant regions. It also supports the unit's value and relative appeal to current and potential shareholders.
- Spatial Analysis: Also known as sectoral analysis, this type presents comparative performance data of companies operating within a specific sector. It helps to identify ways to enhance performance relative to peers.

The Importance of Using Artificial Intelligence Applications in Financial Analysis

In the modern era, there is a growing trend towards smart digital transformation. This is a world where information is of utmost importance, and professionals are willing to go to great lengths to obtain additional information compared to their competitors. International business organizations are beginning to recognize the potential of using this information to support their strategies in various areas, including the process of knowledge discovery, often carried out through exploratory data analysis and the extraction of more useful insights.

Artificial Intelligence (AI) is considered one of the most intriguing topics in contemporary times, with significant advancements in technology and practical applications in information science. Recent developments in AI offer new and exciting opportunities across various fields, including accounting. Therefore, this research aims to explore the role of modern AI applications in enhancing the utility of published accounting information in financial statements and reports, and improving the form, content, and timing of the dissemination and circulation of such reports.

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Concept of Artificial Intelligence:

Artificial Intelligence is defined as the ability of computer systems to perform tasks that require human-like intelligence, such as learning from experience, recognizing patterns, and making informed decisions. AI can be categorized into several types, including weak AI, strong AI, machine learning, and artificial neural networks.

Accounting information is fundamental in supporting the accurate financial and economic decision-making processes within organizations and economic units. With rapid technological advancements, AI can significantly enhance the usefulness of accounting information and data through:

- 1. Improving the Accuracy of Financial Forecasts: AI models can predict future financial behavior of companies based on current and historical financial data, aiding in strategic financial decision-making.
- 2. Analyzing Larger and More Complex Data Sets: AI can process vast amounts of data quickly and efficiently, enabling it to identify patterns and trends that may not be apparent to traditional financial analysts.

1.2. The Importance of Using Artificial Intelligence Applications in Financial Analysis

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2. Data Collection and Processing

Artificial Intelligence (AI) is revolutionizing the field of financial analysis, enabling analysts to process and analyze data with unprecedented accuracy and speed. Financial analysis traditionally relies on the examination of vast amounts of financial and economic data, and AI plays a crucial role in processing this data efficiently and precisely.

One of the key applications of AI in financial analysis is enhancing market forecasts and investment guidance by analyzing historical data and predicting future trends. Additionally, AI can be utilized to uncover hidden patterns and trends in financial markets that may go unnoticed by manual analysis. According to a report by McKinsey, financial companies that incorporate AI into their operations are expected to see a 30% increase in annual revenue. This success is partly attributed to AI's superior ability to analyze data faster and more accurately than humans.

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2.1. Financial Data Collection

Artificial Intelligence (AI) is revolutionizing the collection of financial data, marking a significant shift in how data is gathered and utilized in the financial sector. AI enhances data collection processes by leveraging a wide array of sources, including historical financial data, social media tweets, news articles, economic unit reports, and more.

The collection of financial data through AI relies on advanced techniques such as machine learning, text analysis, and pattern recognition. This enables financial organizations to gain a deeper understanding of market trends and to provide more accurate forecasts of future financial performance.

For instance, AI can analyze a company's financial data and uncover hidden relationships between various variables, assisting in making more informed investment decisions. AI can also be used to identify weaknesses in the performance of economic units and predict potential financial crises.

Moreover, AI allows financial organizations to analyze large datasets more quickly and effectively, leading to improved efficiency and reduced costs. The reliance on AI for financial data collection is expected to continue rising in the future as technologies evolve and the demand for intelligent data analysis in the financial sector grows.

2.2. Data Filtering and Preparation

Filtering financial data using AI can enhance data analysis by providing accurate insights into financial performance and future trends. AI techniques such as machine learning and big data analytics can be employed to filter and organize financial data with greater precision and speed than human capabilities.

2.3. Data Integration and Transformation

Integrating financial data extracted through AI facilitates efficient and rapid financial analysis, making it easier to make data-driven financial decisions. This integration can involve merging data from various sources, such as bank accounts, invoices, financial reports, and more, and transforming it into an analyzable and usable format.

3. AI Techniques for Financial Analysis

There are several AI techniques employed in financial analysis, including:

- 1. Machine Learning: Used for analyzing financial data and predicting market trends.
- 2. Artificial Neural Networks: Utilized to detect complex patterns in financial data.
- 3. Natural Language Processing (NLP): Applied to analyze financial reports and extract key information.
- 4. Classification and Clustering Techniques: Used to categorize financial assets and risks.
- 5. Social Network Analysis: Employed to understand social influences on financial markets.

3.1. Natural Language Processing (NLP)

Natural Language Processing (NLP) is a branch of AI that focuses on the interaction between computers and human language in a natural manner. NLP encompasses text analysis, machine translation, information extraction, text synthesis, speech recognition, and human-machine interaction.

3.2. Machine Learning Algorithms

Machine learning algorithms are a collection of algorithms and techniques used in machine learning applications, such as neural networks and deep learning. These algorithms are employed to analyze data, identify patterns, and make decisions related to prediction, classification, and control.

3.3. Deep Learning Models

Deep learning models rely on multi-layered neural networks to learn structured graphical representations of data, allowing them to understand the context and complexity within the data. This enables them to achieve superior performance in various tasks, such as classification, pattern recognition, translation, synthesis, and more.

4. Financial Statement Analysis

Financial statement analysis is the process of evaluating and interpreting a company's financial data, such as income statements and balance sheets, to understand its performance, financial strength, and long-term sustainability. This involves analyzing financial ratios, including profitability, liquidity, and debt ratios, as well as estimating the company's financial value and future projections.

4.1. Ratio Analysis

Ratio analysis of financial statements involves evaluating a company's financial performance by comparing various figures and ratios within the financial statements, such as income statements, balance sheets, and cash flow statements. This analysis helps in understanding the overall trends of the company, identifying strengths and weaknesses, and providing estimates for future performance.

4.2. Trend Analysis

Trend analysis of financial statements aims to understand how the unit's performance changes over time. This includes analyzing financial ratios like profitability, liquidity, and debt ratios, as well as examining individual elements within the financial statements, such as revenues, costs, and assets. This helps in assessing the health and sustainability of the business and making strategic decisions for the future.

4.3. Comparative Analysis

Comparative analysis of financial statements involves comparing a company's financial data across different time periods to understand changes and trends in financial performance. This comparison can be made between different fiscal years, between the company and its competitors, or within the industry as a whole.

5. **Predictive Analytics**

Predictive analysis of financial statements aims to use historical financial data to forecast the future financial performance of a company. This type of analysis involves employing statistical models and forecasting techniques to understand how various factors might impact future financial outcomes.

5.1. Financial Performance Forecasting

Forecasting financial performance relies on several factors, including past financial history, general economic trends, and industry developments. Analysts and investors use tools such as technical analysis and fundamental analysis to assist in this process.

5.2. Anomaly Detection and Fraud Identification

Detecting anomalies and fraud in financial statements requires meticulous analysis and the use of specialized tools, such as financial ratio analysis, industry benchmarks comparison, and account auditing. Additionally, artificial intelligence and machine learning techniques can be employed to identify unusual patterns and significant discrepancies in financial data.

5.3. Market Trend Forecasting

Forecasting market trends depends on a variety of factors, including technical analysis, fundamental analysis, and economic, political, and social considerations. While no one can predict market trends with complete accuracy, thorough research and analysis can aid in understanding potential trends.

6. Risk Assessment and Management

Risk assessment and management are crucial components of any business or investment strategy. Risk assessment involves identifying and evaluating potential threats, while risk management focuses on implementing strategies to effectively address these risks and mitigate their negative impacts.

6.1. Credit Risk Assessment

Credit risk assessment refers to estimating the likelihood that a borrower may be unable to repay loans or outstanding debts. This includes analyzing financial and economic factors that could affect the borrower's ability to repay, such as credit history, income, existing debts, and general economic conditions.

6.2. Market Risk Analysis

Market risk analysis involves estimating the likelihood that borrowers may default on their debts. This analysis includes evaluating factors such as credit history, market conditions, and the overall economic environment.

6.3. Operational Risk Assessment

Operational risk assessment is the process of identifying and evaluating the risks that an organization may encounter in its day-to-day operations. This involves analyzing potential opportunities and threats and developing strategies to manage those risks in an effective and appropriate manner.

CHAPTER TWO: PRACTICAL ASPECT

Data on the Financial Performance of a Financial Institution (Bank):

The financial statements of a financial institution, available on the international information network, will be utilized as a practical model to conduct financial analysis using artificial intelligence applications. It should be noted that the amounts shown in the statements are in thousands of rivals.

Table 1 Data on the Financial Performance

Statement of Financial Position for Institution X As of December 31, 2021

	Clarifications	2021 (in thousands of SAR)	2020 (in thousands of SAR)
Assets	4		
Cash and balances with the Saudi Central Bank	4	9,177,296	12,207,742
Due from banks and other financial institutions, net	5	738,073	443,002
Investments at fair value through income statement	6	2,365,750	2,185,553
Investments at fair value through other comprehensive income	6	7,412,625	4,516,121
Investments held at amortized cost, net	6	23,432,514	22,743,320
Investments in associates and joint ventures	7	66,680	80,818
Financing, net	8	126,271,491	111,195,559
Property, equipment, and right-of-use assets, net	9	2,382,732	2,365,286
Other assets	10	1,628,923	1,139,420
Total Assets		173,476,084	156,876,803
Liabilities and Equity			
Liabilities			
Deposits from banks and other financial institutions	11	15,239,791	7,312,034
Customer deposits	12	121,060,551	119,454,278
Investment account balances	13	495,990	110,381
Other liabilities	14	5,968,725	5,571,323
Total Liabilities:		142,765,057	132,448,016
Equity			
Share capital	15	20,000,000	20,000,000
Statutory reserve	16	1,268,845	591,498
Other reserves	17	155,366	177,046
Retained earnings		3,585,844	3,760,239
Proposed dividends	2.15	795,131	-
Treasury shares:		94,159	99,996
total equity attributable to equity holders of the bank	17	25,711,027	24,428,787
Tier 1 checks		5,000,000	-
Total Equity	18	30,711,027	24,428,787
Total Liabilities and Equity		173,476,084	156,876,803

The presented tables are illustrative, showing the balances of cash, liabilities, and equity for a financial institution, along with their values for two different periods. These tables are typically used in financial disclosures

within the institution's reports to present a true reflection of its financial position and performance results over a specific period.

The information presented in the tables can be categorized into three main sections:

- 1. Cash and Balances: This includes cash funds, balances with the central bank, banks, and other financial institutions, investments at fair value and at amortized cost, investments in affiliated companies and joint ventures, as well as property, equipment, and other assets.
- 2. Liabilities: This encompasses amounts owed to clients, deposits, amounts payable to unit holders in investment funds, and other claims.
- 3. Equity: This comprises capital, statutory reserves, other reserves, retained earnings, proposed dividends, treasury shares, shareholders' equity, and Tier 1 capital instruments.

This information can be utilized to evaluate and analyze the institution's financial performance, provide future projections, and make appropriate strategic financial decisions.

We will proceed with an analysis of the financial data presented above for each section individually:

- 1. Cash and Balances:
- There is an increase in cash and balances from 156,876,803 to 173,476,084, indicating improved liquidity and an enhanced capacity to meet financial obligations.
- Liabilities: Liabilities have risen from 132,448,016 to 142,765,057, which may suggest an increase in debt or client obligations.
- 3. Equity:

The capital remains unchanged at 20,000,000. However, there is an increase in total equity from 24,428,787 to 30,711,027, reflecting positive growth in the net value of the unit.

Based on this preliminary analysis, it appears that the economic unit has experienced positive growth in liquidity and net worth. However, it is essential to monitor developments in liabilities to ensure they do not increase disproportionately.

Moreover, artificial intelligence can significantly aid in analyzing financial data more quickly and accurately, which contributes to better decision-making and improved financial risk management. For instance, automated analysis can identify market trends and patterns, predict future performance of stocks and financial assets, and detect fraud and manipulation in financial data.

Below is a segment of the analysis performed using artificial intelligence applications with hypothetical figures:

- 1. Financial Trend Analysis:
 - A 20% increase in revenue during the first quarter compared to the previous quarter.
 - A 10% reduction in total costs during the second half of the year.
 - A 30% increase in net profit for the current year.
- 2. Financial Performance Forecast:

- A forecasted 15% revenue growth for the next year based on intelligent analysis models.

- An anticipated 25% increase in net profit in the upcoming period due to expected operational improvements.

3. Fraud Detection:

- Identification of an abnormal pattern in financial transactions suggesting potential fraudulent activities, such as unusual business transactions or significant deviations from typical financial averages.

4. Capital Management Improvement:

- Recommendations for improving capital management based on financial data analysis, such as enhancing asset utilization and reducing fixed costs.

CHAPTER THREE

Conclusions and Recommendations

I. Conclusions

The research has led to several conclusions supporting the validity of its primary hypothesis, including:

1. Information derived from financial statement analysis using artificial intelligence applications can assist management in better forecasting future performance. This is achieved by providing accurate and diverse financial indicators in a timely manner, which positively impacts the overall future financial performance of the company.

- 2. Financial statements analyzed automatically through artificial intelligence techniques can provide useful, real-time information that contributes to evaluating the efficiency of managerial and organizational performance of the economic unit. This is accomplished by comparing its performance across various past periods, segmented by departments, branches, cost centers, and responsibilities.
- The use of automated financial analysis can offer users of financial statements relevant information 3. about the efficiency of resource management within the unit, helping to identify strengths and weaknesses in its performance.

II. Recommendations

Based on the conclusions drawn from the research, the following key recommendations are proposed:

- 1. Economic unit managements should utilize artificial intelligence applications in financial statement analysis to identify weaknesses and strengths in their financial performance.
- 2. Organizations currently relying on big data management systems should adopt artificial intelligence techniques for financial analysis of figures in financial statements and reports. This will facilitate a better understanding and interpretation of the data, preventing the omission of crucial insights and facts related to their operations.
- 3. Shareholders and investors should leverage analyses provided by artificial intelligence applications for financial statements to gain insights into the strengths and weaknesses of the administrative and organizational performance of economic units.

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