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Impact of Artificial Intelligence on Decision-Making in Organisations:

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Abstract:

The use of artificial intelligence (AI) in decision-making processes has emerged as a key organizational development driver in the modern, dynamic commercial environment. This case study investigates the broad implications, difficulties, and transformative possibilities of intelligence in corporate decision-making.

We discover how applying data analysis, pattern recognition, and artificial intelligence can increase decision-making and accuracy using an integrated strategy. Real-world examples from a variety of industries demonstrate how AI-driven decision-making can boost productivity, lower risk, and encourage innovation.

However, as businesses use AI to its full potential, ethical issues become more crucial.

These days, factors including algorithmic bias, data privacy worries, and the demand for human attention must be carefully considered. This paper discusses this intricacy and emphasizes the significance of integrating ethical AI.

got an endorsement from 250 workers utilizing a Google Docs study paper. The results illustrated the advantages and difficulties experienced by professionals directly involved in AI-driven decision-making. Finally, this study shows how AI has advanced beyond efficiency to develop models for business decision-making.

Organizations may overcome obstacles and maximize their potential to advance to a time when AI and people will share a common intelligence in decision-making by understanding the function and ethics of AI.

Keywords: Artificial Intelligence, Decision-Making, Organizational development

1. INTRODUCTION:

- The corporate landscape of today is changing as a result of the rapid advancement of technology. The use of artificial intelligence (AI) across all facets of an organization's operations is one of the major advancements.
- Traditional decision-making paradigms in organizations are changing as a result of AI, the apex of machine learning, data analytics, and AI. This article discusses the effects of AI in the modern business environment and emphasizes how it affects decision-making.
- Organizations are always looking for ways to increase their profitability in the fast-paced, cutthroat
 business world of today. Making better decisions is a unique possibility presented by the development
 of artificial intelligence. In complicated and dynamic contexts, traditional decision-making methods
 frequently rely on assumptions and past facts that may be insufficient. However, corporations are given



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strong tools to make better decisions because to AI's capacity to quickly analyze massive volumes of data, spot complicated patterns, and provide insights.

- This study's major goal is to do research on how intelligence influences organizational decision-making. The study seeks to elucidate the myriad consequences of AI, including those on productivity, accuracy, risk management, and strategic planning. This study seeks to comprehend the evolution of artificial intelligence and how it affects organizational decision-making by examining this effect.
- This study looks at actual circumstances and data to better understand how intelligence has changed over time in decision-making. This study examines the advantages, difficulties, and ethical issues related to AI-driven decision-making in order to contribute to the expanding body of information surrounding its integration into collaborative processes.
- The following section of this article will evaluate the literature that has already been written on AI and
 decision-making, provide a brief overview of the research methods, and go over the effects of AI on
 decision-making processes, efficiency, ethics, obstacles, and next steps. generation. In the end, readers
 will have a better understanding of how AI might radically alter organizational decision-making
 processes.

2. Literature Review:

There is a study on behavior, decision theory, and cognitive abilities:

- Numerous studies have looked at how behavior, decision-making, and IQ interact. According to research, relationships, asymmetry in the information available, and uncertainty, all have an impact on how decisions are made in organizations. With their data-driven and analytical skills, AI technologies have the ability to lessen these biases and enhance the results of decision-making. Great insights into how people make decisions have come from the research on mediation done by Simon in 1957 and the research on cognitive dissonance done by Tversky and Kahneman in 1974. It is possible to improve decision-making by combining these factors with the goal of cognitive intelligence.
- Benefits and difficulties of incorporating AI into decision-making. There are numerous advantages of
 incorporating AI into decision-making. AI can process huge data by spotting trends and connections
 that people would overlook. This makes it easier to estimate risks accurately and allocate resources
 effectively. Artificial intelligence also makes decisions more consistent by minimizing the impact of
 human bias.
- However, there are still issues. It can be challenging to control transparency in AI-driven decision
 making due to some algorithms' "black box" characteristics. Another issue is ensuring that AI
 judgments adhere to moral and ethical standards. In the event of prejudice or error, the shift to AIdriven decision making may result in a lack of accountability. Therefore, for successful AI integration,
 it is essential to comprehend these advantages and difficulties.
- a. Explore various AI techniques: Machine Learning, Artificial Language Processing, and Statistical Analysis:
- AI employs a variety of strategies, each of which has a distinct function in decision-making. Neural
 networks and random forests are two machine learning algorithms that are particularly good at
 identifying patterns and making predictions. By enabling robots to comprehend and mimic human
 language, natural language processing (NLP) makes analytics, customer feedback, and automated
 content creation easier. AI uses predictive analytics to better allocate resources and predict problems.



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- The NLP research by Li and Roth from 2002 and the predictive modeling by Hastie and Tibshirani
 from 2009 demonstrate the growing promise of AI techniques in decision making. In addition to being
 utilized by businesses for business choices, this technology is also employed by governments for
 policymaking, medical professionals for diagnosis, and financial institutions for risk assessment.
- The impact of AI integration on decision making can be understood by combining these results from previous research and comprehending the interaction between AI, decision theory, and behavior. Research on the effects of AI on various industries will shed light on this integration strategy as time goes on.

3. Methodology:

- Research Design, Data Collection, and Setting: To enable access, this study used mixed methodologies, which combine qualitative and quantitative techniques.
- To gain broad insights, primary and secondary data are used. Research samples given to experts in many industries are used to obtain crucial information. These studies gather opinions, knowledge, and understanding regarding the application of AI to decision-making. Academic articles, trade journals, research papers, and company documents are examples of secondary sources.
- Due to the triangulation of the material made possible by this combination of data, the findings are more trustworthy and robust.
- Case Studies and Surveys for Measuring the Impact of Artificial Intelligence on Decision Making.
 The most effective way to show how AI technologies affect decision making in the real world is
 through case studies. Studies from a wide range of disciplines, including manufacturing, finance, and
 medicine, have been chosen. These examples demonstrate how artificial intelligence can be utilized to
 boost performance, enhance decision-making, and produce better outcomes.
- Many ideas and sentiments can be evaluated through observation. These polls seek to comprehend respondents' opinions on artificial intelligence, including how they view its potential advantages, difficulties, and moral dilemmas. The findings give a strong basis of understanding that complements the research literature, appealing to a wide spectrum of professionals.
- A strict data control procedure was also applied to guarantee the validity of the study. To find trends
 and themes, case study qualitative data was examined. Draw significant correlations and associations
 by performing quantitative analysis of the research data, including regression analysis and descriptive
 statistics.
- This hybrid method applies information from several sources and improves our understanding of the topic. The study tries to precisely and concisely describe the impact of intelligence on decision making in companies by triangulating the conclusions of the study using the quantitative data.
- We shall go more deeply into the research's conclusions in the parts that follow, including findings from case studies and clinical investigations. We seek to present an overview of how AI is affecting decision making across industries by contrasting qualitative and quantitative outcomes.

4. AI in Decision-Making:

- a) Improving decision making through data analysis, pattern recognition and automation:
 - AI's ability to glean insights from data about human analysts has an impact on decision-making.
 Data analytics is at the heart of AI's influence since it allows businesses to use data to their advantage and make better decisions. AI can use machine learning algorithms to find trends,



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connections, and anomalies in huge datasets. Organizations are able to make decisions based on a complete comprehension of the situation thanks to this analytical competence.

- Another crucial component of AI-driven decision making is pattern recognition. AI systems are
 adept at spotting patterns that human analysts would find too subtle or challenging to notice. AI
 can be impacted by big patient data sets in fields like diagnostics to spot disease trends, making it
 simpler to intervene and diagnose.
- Automation, particularly in routine decision-making and iterative processes, is where intelligence really excels. Businesses can create artificial intelligence (AI) systems that use predetermined criteria to make wise judgments. For instance, AI-powered chatbots in customer service may handle a wide range of inquiries, freeing up people to concentrate on more engaging encounters. This automation not only expedites decision-making but also lowers the possibility of mistakes that come with manual procedures.
- b) Help Complex Decision-Making Scenarios, Risk Assessment and Strategic Planning:
 - When making complex decisions, when humans have limited ability to engage with numerous component variances, artificial intelligence is powerful. For instance, AI systems can optimize truck routes for deliveries by taking into consideration variables like traffic, weather, and fuel prices. The speedy evaluation capabilities of AI are not considered in this challenging selection in order to achieve good outcomes.
 - Another area where artificial intelligence is making significant progress is risk assessment. Risk
 evaluation is usually based on studies and historical facts. By examining vast volumes of previous
 data to find hidden dangers that might be missed, AI improves this process. By examining minute
 variations in a variety of economic variables, AI models in finance can spot early indications of
 economic downturns.
 - A successful organization's cornerstone is strategic planning, which makes use of intelligence's predictive potential. AI can produce insights that inform strategic decisions by examining business patterns, consumer behavior, and competitive strategy.
 - Retailers, for instance, can use artificial intelligence to estimate consumer product demand to guide decisions about stock and supply chains. Strategic planning that incorporates AI increases decision-making precision and empowers businesses to seize new possibilities.
 - In essence, AI changes the way decisions are made from being made manually and intuitively to being made automatically, strategically, and based on facts. For firms looking to gain a competitive edge in the current business environment, it is valuable due to its capacity to solve difficult problems, spot patterns, and improve performance. When we move on to real-world examples in the following section, it will be easier to see the various uses and benefits of AI in decision making.

5. Organizational Impact:

- a) Evaluation of the Impact of Artificial Intelligence on Organizational Efficiency, Efficiency, and Competitiveness:
 - Organizational dynamics must shift in order to include artificial intelligence in decision-making.
 A rise in the organization's business will have a big influence. Artificial intelligence's ability to handle data enables quick and precise analysis that makes decision-making easier. Predictive maintenance solutions powered by AI, for instance, can increase production rates, decrease downtime, and forecast equipment failure in the industrial industry.



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- This operational effectiveness might result in reduced costs and better distribution. Organizational agility—or the capacity to adjust quickly—is improved by AI. AI offers real-time insights that help businesses react swiftly to shifting market conditions and emerging trends.
- Retail businesses, for instance, employ artificial intelligence to study customer behavior and modify their sales. By enhancing the organization's capacity to exploit opportunities and respond to problems, this agility aids in boosting the organization's overall competitiveness.
- The contribution AI makes to the invention serves as another example of how it affects competition.
- The development of new goods, services, and business models is facilitated by AI-driven insights. Businesses may find business needs and develop products that set them apart from their rivals by utilizing AI's capabilities. Organizations that successfully incorporate AI into their decision-making processes are positioning themselves as industry leaders as the technology develops.

b) Share real-world examples of AI-driven decision making:

- AI-driven decision-making is widely used by businesses, often to great success. Consider Netflix as an illustration. To ascertain the user's viewing habits and interests, the streaming juggernaut employs clever algorithms. By displaying suggested content, this data can improve user engagement and retention. Similar to this, IBM Watson assists medical professionals in the diagnosis of difficult diseases by reviewing patient data and offering diagnoses. These real-world examples demonstrate how AI is enhancing decision-making while also benefiting businesses as a whole.
- Financial services are another sector where AI-assisted decision making is crucial. Artificial intelligence is used by funds and investment organizations to assess market data and carry out transactions in a timely and precise manner. This increases effectiveness while lowering the danger of human error.
- Additionally, supply chain management is impacted by artificial intelligence. Utilizing artificial intelligence algorithms, businesses like Amazon are optimizing their supply chains to estimate demand, change inventory levels, and even enhance delivery. Costs are reduced, and customers are more satisfied because to this efficiency.
- We demonstrate how AI-driven decision-making may go beyond abstract concepts and translate into concrete results by exposing these real-world models. These examples show how AI has the power to alter decision-making processes and promote fruitful organizational outcomes.
- We keep learning more about the true effects of AI on enterprise performance, agility, and
 competitiveness as we progress through the following series. We want to present an overview of
 how AI is altering the decision-making process in enterprises through a thorough investigation of
 these consequences.

6. Ethical Considerations:

- a) Addressing Ethical Issues in AI-Driven Decision Making: Fairness, Consent, and Responsibility:
 - The incorporation of AI into decision-making reveals how challenging it is to effectively manage leadership. Algorithmic bias is one of the biggest issues. When AI systems learn from previous data, the resulting biases in the data may result in unfair judgments. For instance, a biased AI



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recruiting procedure may result in racial or gender disparity. Making fair and equitable decisions requires recognizing and minimizing these biases.

- Transparency is yet another moral dilemma. Some AI algorithms have a "black box" design that can make it challenging to discern the judgments that were made. Transparency, accountability, and the capacity for error correction are all brought into doubt by this. To keep the public's trust, organizations must strike a balance between the requirement for confidentiality and openness.
- The problem of accountability in AI-driven decision-making is complex.
- In the traditional decision-making process, someone who is cognizant of the responsibility for the result frequently participates.
- In AI, accountability transforms into justice based on judgment calls made by algorithms. This begs the question of who is in charge of correcting any mistakes or omissions. Accountability must be established in order to prevent evasion in AI-driven decision-making.

b) Human Interest in Critical Decision-Making:

- While artificial intelligence improves decision-making through efficiency and accuracy, human judgment still plays a crucial role, especially when making crucial choices.
- Artificial intelligence lacks the situational, emotional, and moral awareness that human decision-making possesses. Human intervention is necessary in challenging situations involving moral, ethical, or value judgments.
- Take healthcare as an example, where smart devices aid in diagnosis. The ultimate treatment choice should be chosen with the help of the patient's doctors, who may assess the patient's medical history, social circumstances, and moral factors. Similar to this, in law, clever algorithms can forecast the result, but human judges with wisdom and understanding must make the final judgment.
- The value of paying human attention extends to how AI-driven decision making affects society. Without human assistance, artificial intelligence will not be able to make decisions that are against significant laws, principles, or social standards. To ensure that the results of AI-driven judgments are ethical, it is crucial to find a balance between AI capabilities and human decision-making.
- When taking these ethical considerations into account, organizations should take the initiative. Important measures include putting bias reduction ideas into practice, enhancing algorithmic transparency, and ensuring accountability.
- To make sure that judgments made by AI are consistent with ethical considerations, it is also important to define the boundaries of AI independence and indicate when humans should step in.
- We examine particular circumstances where ethical decision-making influences the integration of
 AI and observation as we delve deeper into the ethical implications of AI in decision-making.
 Organizations may harness the potential of AI while adhering to the best standards in decision-making by identifying and addressing these concerns.

7. Challenges and Limitations:

- a) Challenges of using AI for decision-making:
 - The integration of AI into decision-making poses numerous problems for which enterprises must find solutions. The initial expense and investment needed to use AI are a significant obstacle. It takes money and effort to build or buy AI systems, educate employees, and incorporate AI into



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current operations. Additionally, individuals who use conventional decision-making techniques may have difficulties due to the learning curve involved with understanding AI technology.

- Another difficulty is managing change. A cultural shift is necessary to make the shift from manual
 decision-making to AI-driven operations. Employees can be worried about switching jobs or
 interfering with algorithmic decision-making. Building support and enabling successful adoption
 depends on effective change management.
- b) Discussing Potential Potentials: Algorithmic Bias and Data Security Concerns:
 - Artificial intelligence's ability to make decisions appears to be significantly constrained by algorithmic bias. Data biases can be found by AI systems trained on historical data.
 - For instance, due to biases in the historical lending model, AI-based credit approval may have a negative effect on some demographic groups. These prejudices promote inequality and compromise the objectivity of judgment.
 - Privacy is a similar concern. Decisions made by AI are frequently based on vast volumes of data gathered by humans. The line between using data to inform decisions and impinging on people's privacy must be carefully drawn by organizations.
 - Access to sensitive material that is inappropriate or unauthorized can damage credibility and erode public trust.
 - Additionally, it can be difficult to grasp how judgments are made due to some AI systems' "black box" nature. Because it makes it more difficult to spot and fix mistakes, this opacity diminishes the job. Ownership algorithms and transparency need to be balanced in organizations.
 - The artificial intelligence's incapacity to understand the subtleties that human judgment is skilled at is another restriction. While AI is good at processing data, it may suffer when faced with challenges that call for creativity, intuition, or a thorough understanding of how people interact.

8. Overcoming obstacles and overcoming constraints:

- Organizations must offer answers to these issues and constraints. Careful data management, different data reporting factors, and ongoing systematic evaluation are necessary for addressing algorithmic bias. Accountability and trust are increased by transparent algorithms, descriptive AI, and regular reviews.
- Strong data protection, adherence to laws like the GDPR, and accessible data usage information can all help to reduce data privacy issues.
- In order to overcome resistance and facilitate change, organizations must invest in AI education and training programs.
- Organizations continue to gain from the development of artificial intelligence despite these
 obstacles and constraints. Organizations can employ AI to enhance decision-making while
 preserving integrity, fairness, and privacy by recognizing these issues and taking proactive
 measures to address them.
- In order to better understand these ideas, we will look at instances of actual organizations that deal with these constraints and difficulties. Organizations may better prepare for and integrate AI into decision-making by knowing the approaches taken to address these issues.



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9. Future Trends:

- a) Forecasting the Evolving Role of Artificial Intelligence in Decision Making and Organizational Structures:
 - Artificial intelligence's function in decision-making will shift as it develops further. Data analysis
 and pattern recognition, two of AI's existing contributions, will not only continue but grow in
 importance. AI-driven decision assistance will be a crucial component of how businesses operate,
 facilitating daily choices and tactics.
 - The organizational structure will change to allow for the incorporation of artificial intelligence. As AI enables employees at all levels to make educated decisions, hierarchical organizations are likely to evolve into elegant ones.
 - Decision-making will transition from human decision-making to human-artificial intelligence collaboration, where artificial intelligence systems assist human decision-making. Organizations will be able to react swiftly to market developments thanks to this partnership, which will encourage creative and agile solutions.
 - Considerations on prospective advancements in intelligence technology and their effect on judgment:
 - The development of intelligence technology suggests advancements that will affect decision-making. Algorithms for machine learning will be more effective at unsupervised learning, allowing them to identify patterns in data without human supervision. This will increase AI's capacity to notice minute insights that are invisible to humans.
 - Concepts and feelings will continue to be accurately understood by natural language processing (NLP). AI systems will be better able to comprehend and mimic human language as a result, which will alter decisions. Conversational AI solutions will simplify communication, enhance customer satisfaction, and support decision-makers in challenging circumstances.
 - Additionally, developments in XAI (artificial intelligence) will address "black box" problems. AI systems will assure accountability, give clear justifications for their choices, and make it possible for human decision-makers to comprehend and reject AI proposals.
 - By producing more information in real-time, the combination of artificial intelligence and cuttingedge technologies like the Internet of Things (IoT) will facilitate decision-making. This data will be analyzed by AI to offer insights into resource allocation, operational efficiency, and risk management.

b) Expected Social and Equity Impact:

- While these developments produce beneficial outcomes, they also exacerbate social and equitable problems. It is important to address the possibility that AI will replace human workers, privacy issues, and the necessity for ethics in AI decision-making.
- In a nutshell, cooperation between intelligent machines and people will define the future of artificial intelligence in decision-making.
- Organizations will leverage their strengths to improve decision-making outcomes, organization, and innovation as AI technology develops. Organizations can put themselves at the vanguard of AI-driven decision-making by embracing these advancements and solving the accompanying obstacles.



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• This research supports the social discussion, ethical concerns, and organizational consequences of this change by thoroughly examining the possibilities of AI-enhanced decision-making.

10. Conclusion:

• The goal of this study is to integrate artificial intelligence (AI) into organizational decision-making processes. We investigate the main influence of intelligence on corporate decision making through multidimensional research. Let's consider the main conclusions of this study, emphasize the significance of artificial intelligence, and discuss potential directions for future research as we draw to a close.

a) Summary of key findings:

- Our study demonstrates that AI facilitates better decision-making in a variety of contexts. AI
 advances automation, pattern recognition, and data analytics, empowering businesses to make
 better decisions.
- The advantages of AI-driven decision making, from efficiency and risk reduction to strategic planning and creativity, are demonstrated by real-world instances. However, there are several difficulties with AI integration, such as ethical issues, bias, and data privacy issues. Our analysis emphasizes how critical it is to overcome these problems in order to ensure AI's role.

b) The importance of AI in shaping the future:

- Organizational decision-making does not consciously overestimate the significance of AI in defining the future. AI transcends conventional boundaries, allowing businesses to use data-driven insights to achieve superior outcomes.
- It promotes flexibility, innovation, and effectiveness, empowering firms to confidently traverse uncertain conditions. A dramatic shift in decision-making is being heralded by the increasing prevalence of human-AI collaboration, which enhances human intellect and changes processes. Organizations stand to see a new degree of competitiveness and change as a result of this transition.

c) Supporting further research:

- Despite the fact that this study examines every facet of AI's influence on decision making, it's crucial to remember that this area is still developing. The quick development of AI necessitates ongoing study to address new issues and take advantage of unexplored prospects.
- It is crucial to continue researching algorithmic transparency, bias-reduction techniques, and successful AI-human collaboration methods. Research on workplace transition challenges, ethics, and the societal effects of AI-driven decision making will also help us better grasp the role of AI in enterprises.
- In conclusion, a crucial step in the organization's transformation process is the incorporation of AI into decision-making. This study emphasizes how data-driven insights, automation, and human cooperation may be used by AI to transform decision making. Organizations may use AI's capability to help establish a future in which human and artificial intelligence coexist by recognizing the revolutionary promise of AI and tackling its obstacles.
- As we move forward on this path, a new era where the fusion of human and artificial intelligence illuminates decisions is about to begin.



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