The Potential Utilisation of Artificial Intelligence (AI) in Enterprises

Marie Leddy and Niall McCreanor
Dundalk Institute of Technology, Co. Louth, Ireland
marie.leddy@dkit.ie
niall mccreanor@gmail.com

Abstract: Artificial Intelligence (AI) is a part of computer science that aims to create and develop intelligent machines. For AI to function and perform, it involves the development of algorithms and models that enable computers to learn from the data, identify patterns, and make predictions. Research indicates that AI can increase private industry output, decision-making, and effectiveness. AI can analyse vast amounts of data quickly and precisely, as well as identify patterns and trends (Marr, 2018). This makes AI well-suited for occupations requiring data processing and analysis, such as data entry, analysis, and customer service (Sharma, 2019). AI can also be used to automate processes and tasks (Sharma, 2019). Research implies that AI will impact jobs (WEF, 2018). This may involve providing individuals with training to improve their skills and knowledge to prepare them for occupations involving AI technology, as well as developing regulations and processes to ensure that AI is utilised in a fair, transparent, and accountable manner (WEF, 2018). An evaluation of AI’s limitations and to ensure forecasting data is accurate and trustworthy (Marr, 2018). It is also crucial to consider the possibility of bias in AI systems and adopt precautions (WEF, 2018). Furthermore, AI offers many benefits but also presents problems, including the prospect of job loss, the likelihood of bias in AI algorithms, privacy, security, and ethical concerns (WEF, 2018). By identifying how enterprises are utilising AI, what is the impact of implementing AI in enterprise operations, how does it affect the efficiency, productivity, and overall performance of the business. This exploratory research begins with an insight into understanding AI, addresses how AI has been utilised and implemented into businesses, the ethical and societal considerations, and potential benefits and challenges businesses may confront. Ten interviews with leading industry experts using AI, followed by focus groups, have generated information, opinions, and key insights. By utilising the software Nvivo this quantitative research presents key themes and content findings to assist in educating enterprise personnel during AI decision-making and implementation stages.

Keywords: Artificial Intelligence, implementation, Ethics, Benefits and Challenges

1. Introduction

Artificial intelligence (AI) is advancing at a rapid pace and has the potential to transform the way organisations are run. McKinsey Global Institute estimated that the implementation of AI in businesses could generate up to $3.5 trillion by the year 2030. (Manyika et al., 2017). The implementation of AI can increase productivity, lower expenses, encourage innovation and expansion, and handle supply chain management, customer support, and product development. The use of AI raises many ethical concerns, including questions about privacy, accountability, and transparency (Mittelstadt et al., 2016). As organisations consider the adoption of AI, it is important for them to carefully consider these risks and challenges and take steps to address them. According to a survey conducted by the Harvard Business Review, 71% of respondents expect to be using AI in their businesses within the next three years (HBR Analytic Services, 2018). Throughout this exploratory research, we aim to provide a comprehensive overview of the current state of AI within enterprise and its future direction by:

1. Examine how AI is being utilised within enterprise and assess the potential benefits and challenges of such adoption.
2. Identify the ethical and societal implications of AI adoption within enterprise, including the potential for job displacement and the risk of bias in AI algorithms.
3. Provide recommendations for best practices for enterprise considering the adoption of AI to maximize the potential benefits while minimizing potential negative impacts.

1.1 What is Artificial Intelligence?

Artificial intelligence, or AI, is the term used to describe the emulation of human intelligence in machines designed to think and learn similarly to humans (Bostrom, 2014). AI is the capability of machines/robots to perform operations generally require human intelligence (speech recognition, decision-making, visual perception, and natural language comprehension). A lot of investigation and development in AI has lead to advancements in machine learning, deep learning, natural language processing, and robotics. The idea of building robots capable of mimicking human intelligence was first put forth by pioneers like John McCarthy, Marvin Minsky, and Claude Shannon in the middle of the 20th century. Machine learning involves training algorithms on big data sets to identify and pinpoint patterns as well as make predictions. As a result, there has been major advancement in systems, natural language processing, and computer vision. By facilitating neural networks to understand more complicated
data representations and deep learning, a branch of machine learning has improved neural network performance (Goodfellow, Bengio, & Courville, 2016).

### Figure 1

#### 1.1.1 The Role and implementation of AI in Business

AI is used by companies to automate repetitive operations (Hassanzadeh et al., 2018), analyse data (Wang et al., 2019), and make predictions (Nguyen et al., 2019). A few of the major business applications of AI include Automation, Data analysis, Predictive analytics, Marketing, Fraud Detection, Supply Chain and Customer Service. AI implementation within a company can be a multi-step complex process (KPMG, 2018). Among the crucial actions in deploying AI in a company are: Clearly defining the business challenges the firm is attempting to solve (Hassanzadeh et al., 2018). By doing this, it will be easier to make sure the AI solution is customised to fit the unique demands of the firm (Zhang et al., 2017). Implementing AI into any organisation involves multiple steps: Problem Definition, Data Collection, Data Preparation, Model Selection and Training, Validation and Testing and Deployment each with its unique set of challenges and potential pitfalls. To mitigate these challenges, thorough planning and expert guidance are necessary at each stage. The data preparation stage should involve data auditing practices, data cleansing tools. When selecting and training the model, it could be beneficial to use techniques like cross-validation to avoid overfitting, and ensembling methods to improve model performance. During deployment and monitoring, having robust IT infrastructure, clear communication channels with users, and ethical oversight mechanisms aids successful implementation.

#### 1.2 Benefits of AI (Business Perspective)

Integrating AI has a number of advantages for businesses (KPMG, 2018). AI can manage vast volumes of data (Wang et al., 2018) and automate repetitive operations (Hassanzadeh et al., 2018), boosting output and lessen the need for manual labour. AI can evaluate data and generate insights to help businesses make better decisions, increasing performance and competitiveness (Zhang et al., 2017). AI can help organisations labour expenses by automating operations and decreasing the demand for human labour (Raza et al., 2018). Personalised client experiences and more effective customer service can be achieved (Barbosa et al., 2018), which will boost customer satisfaction and retention. AI can be used for predictive maintenance which lowers maintenance costs and downtime by foretelling when equipment is likely to fail (Nguyen et al., 2019). A report by Accenture Research (2017) recorded the tangible improvements from AI implementation across 16 different industries and found that AI has the potential to boost profitability. Salesforce (2017) highlighted that in the retail industry the integration of AI for customer relationship management has increased sales by 35%. Furthermore, a study undertaken by McKinsey & Company specifies that organisations implementing AI into their supply chain and manufacturing process recognised a reduction in forecasting errors by 20-50%, leading to a decrease in inventory reductions of 20-50%, resulting in significant cost savings.
1.3 Challenges of AI (Business Perspective)

AI in business has many advantages (KPMG, 2018), there are also difficulties to be accounted for (Liu et al., 2019). High-quality data is essential for AI systems to work efficiently (Wang et al., 2018). To ensure AI generates actionable results, businesses must ensure their data is accurate, current, and relevant (Zhang et al., 2017). Ethical issues are another challenge. As AI systems improve, companies need to take into account ethical issues like prejudice (Berendt et al., 2019), responsibility (Bostrom, 2014), and transparency (Dignum et al., 2019). There is an increasing need for AI knowledge, and firms may have trouble locating the people they require to develop and maintain AI systems (KPMG, 2018). AI systems process a lot of data, so companies must ensure they are following data privacy laws (Hoffmann et al., 2018) and the data is being used ethically and responsibly (O'Neil, 2016). Integration of AI can be difficult and time-consuming for businesses to incorporate AI technology into their current infrastructure and business processes (Li et al., 2018). As AI systems handle sensitive data, companies must make sure the systems are safe (Huang et al., 2018) and the data is shielded from intrusions and breaches (Zhang et al., 2017). An IBM annual report ‘This Cost of Poor Data Quality’ highlights that the quality of data that feeds the AI system is a primary concern. The U.S economy incurs an astounding annual cost of around $3.1 trillion due to poor data quality (IBM, 2016). To address data quality issues, businesses can implement data audits and enforce robust data frameworks to ensure the reliability and consistency of the data.

1.3.1 Ethics and AI

Ethical issues related to AI in the workplace need to be considered (Goodman & Flaxman, 2016). Key ethical concerns with AI in business include Bias: When taught biased data, AI systems have the potential to reinforce and even exacerbate that bias (Dastin, 2018). Decisions made as a result may be unfair or discriminating, which is harmful to both individuals and organisations (Wachter et al., 2017). Transparency: Many AI systems are "black box" models, which means people cannot see or understand the decisions they make (Lipton, 2018). This might make it challenging to comprehend how and why decisions are being made, which can cause issues with trust and responsibility (Goodman & Flaxman, 2016). Data privacy: As AI systems process a lot of data, companies must ensure they are following data privacy laws and the data is being used ethically and responsibly (National Research Council, 2014). Autonomous systems: Systems that can operate alone, such as autonomous cars or drones, are referred to as autonomous systems (Lin, 2017). These systems raise moral questions about liability, responsibility, and safety (Wallach & Allen, 2009). Displacement of jobs: A possibility when AI systems automate work and render human labour unnecessary (Frey & Osborne, 2017). Businesses must think carefully about the moral ramifications of job loss (Baert, 2018). Discrimination: A possibility due to the fact AI systems may make judgments based on factors like age, gender, and ethnicity (Angwin et al., 2016).

1.4 Societal Implications and Concerns

Many societal implications, and problems can be associated with using AI in business. Issues such as Job displacement: is possible when AI systems automate work and render human labour unnecessary. This might result in social and economic inequity. This might be especially problematic for low-skilled individuals, who may find it challenging to retrain for new professions (Frey and Osborne, 2017). Economic inequality: AI systems may result in economic inequality because those who can access and afford the technology will gain from its enhanced productivity and efficiency, leaving those who cannot (Autor, 2019). Social isolation: As AI systems take on more jobs previously handled by people, there is a risk of social isolation because there will be less opportunity for human interaction (Brynjolfsson and McAfee, 2014). Lack of accountability: Because AI systems can act and make decisions without human supervision, it may be challenging to hold them responsible for their deeds (Wachter et al., 2018).

1.5 Future of AI

AI is predicted to continue to grow and be integrated into a variety of businesses in the coming years. "AI is expected to add $15.7 trillion to the global economy by 2030" (PwC, 2018). Future advancements and trends in AI include Increased automation: AI systems are predicted to automate a broader range of tasks, increasing productivity and efficiency across industries (Gartner, 2020). "Companies that adopt AI in their operations see an average increase in productivity of up to 30%" (Amit & Schoemaker, 2003). Edge computing: As the amount of data produced by IoT devices rises, AI algorithms will be installed in edge devices closer to the data source, enabling faster and more effective data processing (Cisco, 2020). Human-AI collaboration: As AI systems improve, more attention is anticipated to be given to human-AI collaboration (Wachter et al., 2018), in which AI systems assist people in making decisions. Ethics and regulation: As AI systems proliferate, the ethical and legal ramifications of their use will come under more scrutiny.
Marie Leddy and Niall McCreanor

Businesses must ensure their AI systems are accountable, transparent, and compliant with applicable laws.

2. Methodology

This exploratory research comprised a total of ten interviews and two focus group sessions were conducted. Participants were recruited by undertaking purposive sampling to obtain a diverse representation from a variety of business sectors (IT services, finance, healthcare, automotive, and retail) and access to management and personnel who are involved in AI utilisation within their enterprise. A combination of face to face and online interviews utilising video conferencing technology was undertaken. Structured interviews were undertaken to gain knowledge and experience on the current level of AI adaptation, application and prospective benefits and obstacles as well as future applications. Each interviewee answered, shared opinions, and elaborated on each of the twelve questions. Interviews were time bound to 45 minutes to encourage participation and apply a level of consistency. Two Focus Group sessions were conducted utilising video conferencing technology. The focus groups were approximately 70-80 minutes in length and consisted of a total of 9 employees who utilise AI across seven distinct industries (Healthcare, Education, Automobile, Legal, Retail, Security, Finance). The aim of the two-focus groups is to acquire information and discussions about the attitudes, beliefs, and perceptions towards the use of AI in participants' enterprise/industry. A blend of questions and statements were communicated to encourage discussions and gain further information on the following topics: how AI is used in the organization, the benefits and challenges of AI adoption, the ethical and societal implications of AI adoption, future applications of AI, and implementation considerations for AI.

A systematic process was undertaken through which the data collected was analyzed, and subsequently, the key themes for the study were presented. Step 1: A total sample size of the set of interviews and 2 focus group discussions was conducted, and information was gathered on the Overview of AI adoption in various enterprises. Step 2: The qualitative information/data gathered were then imported into Nvivo 12 qualitative analysis software. The procedure involves categorizing similar and related quotations into codes. Step 3: The codebook and the transcript were then analyzed to capture key themes relevant to the study. The themes uncovered are: (1) AI implementation in business and consideration while deploying AI. (2) Advantages of AI, foreseeing AI uses and its future potentials in company sectors. (3) Difficulties faced in AI deployment/utilization and recommendations for best practices in businesses. (4) Impact of AI on growth and innovation in industries and potential effect on modern business operation allowing for a thematic content analysis to produce insights from the data.

3. Findings

AI has the potential to bring significant benefits to organisations in terms of efficiency, productivity, and decision-making.

“AI has given us the ability to develop more effective and precise solutions for our clients, increasing client happiness and boosting income.” Customer Service Specialist

Numerous business sectors are starting to acknowledge the benefits of AI. In fact, 64% of businesses believe that AI will boost their productivity (Forbes Advisor, 2023). Among leading businesses, 9 out of 10 are investing in AI technologies, although only 14.6% have currently deployed AI capabilities in their operations (Authority Hacker, 2023).

“AI has increased the effectiveness of our supply chain and enabled us to offer a more individualized consumer experience.” Logistics FmCG - Manager

Challenges and considerations that organisations must consider when implementing AI, including the potential for job displacement, the risk of bias in AI algorithms, and ethical concerns (WEF, 2018).-

“Difficulties in gathering and processing the substantial volumes of data needed for AI training, in addition to worries about the security of auto vehicles” Automobile Representative

AI makes decisions using algorithms that either follow rules or, in the case of machine learning, review large quantities of data to identify and follow patterns which consists of multiple layers, machines develop their own learning and patterns, which makes it non-transparent compared to traditional rule-following computing.

“Biggest obstacles were controlling the cost of AI installation and dealing with concerns about potential job displacement.” Transport and Logistics Representative

There are serious ethical, safety and societal risk associated with the growth of AI technologies, finding qualified candidates with experience in AI and incorporating AI solutions into clients’ current systems has been a common hurdle.
and overcoming early doubts about the accuracy and dependability of AI as well as assuring data privacy and security is a significant challenge and difficult to ensure regulatory compliance.

“Overcoming early doubts about the accuracy of AI as well as assuring data privacy and security was a significant challenge.” Marketing Director

“Finding qualified candidates with experience in AI and incorporating AI solutions into our client’s current systems were the biggest hurdles.” Entrepreneur

A common challenge that arose was job displacement. AI automates tasks, therefore, poses a risk for human workers to become redundant. This is not just an industry-specific challenge, as job losses can cause economic disruption. Our research identified that job displacement is not a major issue as AI relies on humans to operate the programs. 80% of retail sector executives intend to implement AI automation by 2025 (Authority Hacker, 2023). However, AI has generated a level of fear and uncertainty among workers. Therefore, retraining, upskilling and investments as workers transition to new roles utilising AI emerged as a possible solution.

“Investments in frameworks and tools for AI auditing, the promotion of ethical AI development, and a focus on workforce development and retraining are a few potential remedies.” Financial Representative

“While using AI, companies should give ethical issues, openness, and fairness a priority, as well as retraining and developing their personnel.” Automobile Representative

Organisations should take several precautions to address the possibility of bias and ethical difficulties with AI systems. The first and most important step is to ensure that the data used to train AI systems is diverse, representative, and unbiased (Brundage et al., 2018). This could include cleaning and preparing the data, as well as ensuring that it was gathered honestly and openly. Finally, organisations should implement methods for routinely evaluating and testing AI systems to verify they are working as intended and are not creating biased or unethical results (Dastin, 2018).

“Ai has made it possible for us to work with businesses to address ethical and safety issues in a more organized and efficient manner, ultimately enhancing the reliability of AI systems.” HR Personnel

Implementing AI technology can be a complex process. This research highlights that industries and businesses investing in and applying AI applications must identify what type of AI should be implemented. Aligning AI initiatives with business objectives and strategy can be difficult for organisations. This could entail identifying the business problems that AI can solve as well as the criteria that will be used to assess the effectiveness of AI initiatives (Kohli, 2018). To obtain the full benefits of AI, businesses may need to consider how AI will integrate within their existing systems and processes and make any necessary changes (Goyal, 2017).

“Legal and moral issues related to AI in their sectors. These hazards can be reduced by working with regulatory organizations and maintaining current with industry best practices.” Legal Representative

“Maintaining stakeholder trust requires making sure AI systems are transparent and understandable, even if this can be difficult. These issues can be addressed by creating explicit AI rules and encouraging open dialogue.” FinTech Representative

AI applications can collect, process and store large quantities of personal data. The European Union’s General Data Protection Regulation (GDPR) sets out detailed conditions for collecting, using, and storing personal data, and businesses operating in the EU must comply with these regulations. The legal framework for AI is evolving with an emphasis on ensuring that the technology is used in a responsible and ethical manner. (S. De Choudhury and J. Kleinberg 2017).

“Companies should take into account elements including data security and privacy, algorithmic fairness and bias, employee development and retraining, regulatory compliance, and moral issues.” IT specialist

Recommendations drawn from the research that the AI system’s design needs to be considered. The system requires testing and for any biases or errors to be addressed to ensure the system is accurate and trustworthy. In addition, businesses may face cultural challenges when integrating AI. Employees might resist changing, fear of job loss, and may have a lack of understanding of how AI works (Hee, 2018). Organisations may need to invest in education and training for employees to understand the benefits and implications of AI. They may also want to think about how to engage and inform their employees about AI initiatives (Kohli, 2018).

“Our company focuses on creating open and just AI algorithms and makes investments in training and up-skilling legal practitioners to work with AI systems.”
Information and content acquired during the methodology stage of the research have allowed us to identify the AI processes and applications that enterprises are utilising as a part of their external and internal processes.

**Figure 2**

**External Processes**

1. **Marketing**: AI-driven marketing tools like customer segmentation, tailored content, and predictive analytics substantially enhance marketing effectiveness and customer engagement. Companies that have adopted AI in marketing have seen increased conversion rates, more focused campaigns, and a more efficient allocation of marketing resources.

2. **Customer Service**: AI-powered chatbots and virtual assistants improve customer service operations by providing prompt and precise responses, reducing wait times, and offering round-the-clock support. However, balancing automated and human assistance is crucial, as customers continue to value human interaction for addressing more complex concerns.

3. **Fraud Detection**: Implementing AI in fraud detection has enabled organisations to more effectively identify and prevent fraudulent activities. Machine learning algorithms, especially those utilising anomaly detection and pattern recognition, have considerably improved the precision and speed of fraud detection systems, which leads to decreased losses and increased customer trust.

**Internal Processes**

1. **Human Resources**: AI technologies have streamlined recruitment by automating CV screening, interview scheduling, and candidate evaluation. Moreover, AI has supported employee retention and career development by providing personalised training and performance management.

2. **Supply Chain**: Incorporating AI in supply chain management has optimised inventory control, demand forecasting, and logistics operations. Companies using AI in their supply chain report lower operational costs, reduced lead times, and enhanced accuracy in demand forecasting.

3. **Predictive Analysis**: AI-driven predictive analysis for well-informed decision-making. AI-powered predictive models empower organisations to foresee trends, detect potential risks, and make data-driven decisions, which result in increased operational efficiency and a competitive edge.

4. **Data Analysis**: Employing AI in data analysis has enabled more accurate, efficient, and insightful data processing. Companies that have embraced AI-driven data analysis tools have reported improved decision-making capabilities and an increased ability to derive actionable insights from extensive data sets.

5. **Automation**: The study demonstrates that AI-powered automation solutions significantly boost operational efficiency by reducing human error and allowing employees to concentrate on more strategic and creative tasks.

**3.3 Considerations for AI Implementation in Organisations**

To successfully integrate AI several factors must be considered. Organisations implementing AI technologies in external and internal processes should consider the following.
External (Customer-Facing) Processes Marketing, customer service, and fraud detection:

Customer Experience: AI must improve the customer experience, not detract from it. Ensure AI-powered solutions are user-friendly, efficient, and accessible to a diverse customer base. Data Security and Privacy: Since customer-facing AI systems handle sensitive customer data, organisations should implement strict data protection measures. To avoid legal issues and maintain customer trust, data protection regulations like GDPR in the UK must be followed. Integration with Existing Systems: To minimise disruptions and maximise resource efficiency, AI technologies should be seamlessly integrated with marketing, customer service, and fraud detection systems.

Internal Procedures: HR, supply chain, predictive analysis, data analysis, and automation are internal processes. Processes include: Employee Engagement and Retraining: AI may displace workers or change their roles. Employee engagement, retraining, and transition support should be prioritised. Ethical Considerations: Organisations should consider how adopting AI will affect fairness, transparency, and bias in decision-making. Infrastructure and Compatibility: An organization’s infrastructure and IT systems must be AI-compatible. Scalability: AI systems should be scalable to support organisational growth. Organisations must calculate AI’s short and long term ROI. AI technology costs must be weighed against their expected benefits and efficiencies.

Limitations

Limitations must be recognised while exploring the possible utilisation of AI within enterprises. A notable constraint was that 40% of the interviewees and focus group attendees were apprehensive about divulging details of operational activities. They were concerned that sharing such confidential information could have adverse effects on their industry. It was decided to anonymise all participants' information, only providing details about job title and industry. The anonymisation of data may impede the generalisability of our findings, therefore this exploratory research would require further research to address these limitations.

4. Review of Findings

Theme 1: Overview of AI implementation in business and consideration while deploying AI.

AI can process large amounts of data and perform complex calculations allowing certain tasks to be undertaken at a much faster pace and minimising the risk of human error. Allowing businesses to focus more time on strategic tasks. Another usage with AI’s ability is to provide insights and predictions based on the large volumes of data that it can process and analyse. Businesses can utilise this information to assist in decision-making (i.e., predicting market trends, predicting sales forecasts etc....). This data can generate personalised recommendations or tailor products and services to specific requirements. Our research identified that AI has helped businesses provide more efficient and professional customer service. AI automating process, named chatbots, can quickly respond to customer inquiries and provide personalised prompt customer support. Consumer trends and feedback can also be highlighted, allowing businesses to understand their customers.

Theme 2: Advantages of AI, foreseeing AI uses and its future potentials in company sectors.

There are many applications for AI, including the healthcare industry, banking, retail, and transportation. Another trend is the increased use of AI to automate processes and procedures. Employees may focus on more complex and creative
work using AI to automate mundane and repetitive chores (Goyal, 2017). This trend is expected to greatly impact the future form of employment and the necessary skills. Therefore, businesses must examine how to adapt (Bryson et al., 2018). The third trend is the growing use of AI in decision-making. AI can greatly increase decision-making speed and precision, as well as analyse massive volumes of data to uncover patterns and trends that humans would miss (Kohli, 2018).

**Theme 3: Impact of AI on growth and innovation in industries and the potential effect on modern business operation**

China advances in AI adoption, with 58% of companies deploying AI. In comparison, the United States has a lower implementation rate, with 25% of companies using AI and 43% exploring its potential applications (Forbes, 2023). AI is projected to have a substantial economic impact, contributing a net increase of 21% to the United States’ GDP by 2030 (Forbes, 2023). AI can automate routine tasks, allowing employees to focus on more creative and strategic work. Make better decisions by providing accurate and timely data analysis due to AI-driven technologies that spur development and innovation across almost all sectors. Some industries stand to gain significantly from AI developments, including healthcare, automotive, manufacturing, and financial sectors. It is estimated that AI might cause the elimination of 85 million jobs by 2025 (Authority Hacker, 2023).

**Theme 4: Difficulties faced in AI deployment/utilisation and recommendations for best practices in businesses.**

Businesses that do not use AI risk falling behind competitors who do to improve productivity, efficiency, and decision-making (Bughin, et al., 2018). AI is becoming a crucial competitive differentiator in today’s business environment (Daugherty & Wilson, 2017). According to a McKinsey & Company Analysis, companies that use AI see significant cost savings, revenue growth, and increased customer satisfaction (Bughin et al., 2018). Those that do not use AI may find it difficult to compete with these organisations and to attract and retain customers (Bughin et al., 2018). Furthermore, the use of AI poses various ethical and legal concerns, such as the potential for bias in AI algorithms and the influence of AI on employment.

5. **Conclusion**

This research paper has examined the potential utilisation of AI in enterprise, addressing objectives such as understanding AI implementation, exploring the benefits and challenges, evaluating the ethical and societal implications, and providing recommendations for best practices. The findings reveal that AI is being used across diverse sectors, such as manufacturing, finance, software development, retail, and logistics, to improve operational processes and enhance customer experiences. The implementation of AI contains challenges, such as data quality, biases in algorithms, and compliance with ethical and legal standards. To address these challenges, measures such as employee retraining, collaboration with external partners, fostering transparency and accountability have been adopted.

The predictions for AI’s future applications in enterprise are promising, but a focus on data privacy, workforce development, ethical considerations, and regulatory compliance must go hand in hand with this growth. It is crucial for organisations to approach AI adoption with careful planning, continuous evaluation, and a commitment to responsible and accountable AI practices, ensuring a harmonious integration of AI into the fabric of enterprise. The anonymisation of data may impede the generalisability of our findings, it is recommended that this exploratory research would require further research to address these limitations, such as undertaking case studies or securing the necessary confidentiality agreements that allow for the disclosure of more specific organisational information. Also, an increase in governmental management and surveillance like General Data Protection Regulation (GDPR) to safeguard data usage, eliminate bias and ensure data privacy.

**References**


