

Resilience and adaptation of Artificial Intelligence in the stability of International Finance, Cyber security and IPR perspective

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Abstract: Considering the advancements in artificial intelligence (AI) in the present global context, this research highlights the major drawbacks of the legal and regulatory AI framework for financial stability in the international finance field. The research aims to design a law and policy framework to regulate the safety, ethics, tranquillity, efficiency, and humanity (SETEH) of AI technologies in the sustainable finance domain.

Keywords: SETEH framework, AI in fintech policy and legal compliance, cybersecurity, human value, AI governance

I. INTRODUCTION

The economy and humans feel the aspect of insecurity and threat if their data are theft or utilized for financial loss and other unethical concerns, yes, we are in generation where the global is aspiring towards artificial intelligence where the human race are exposed to insignificant threats and infinity technological efficiency. The aspect of advancement in technology can make the day-to-day work easier, smarter, efficient and productive, but no technology can provide a adverse effect of inhumanity like artificial intelligence has done. During the year 2023, in the USA, a human has performed suicide due to the irrelevant information provided by the ai during his search of data through ai platform, so can you imagine how adverse the ai tool is it has the power to even take a life, that is 100 times threatening than covid19. So, the reason to indulge this case in this research paper is, there as no proper logic and sense of humanity the ai tool has towards human values, to ai everything has a result that are predesigned, pedagogy and impending data mining that will provide output of data what it has been designed for, can a human tolerance can match its transparency and data asymmetry in terms of information's.

1.1.LITERATURE REVIEW

AI tools in finance have multifunctional dimensions. They have made it easy to transfer money through digital platforms, including apps such as Google Pay. However, they are not properly regulated, leading to cyberattacks, cyberthreats, and other fraudulent activities. Proper employee skill training, a regularised framework, and robust guidelines are needed to foster trust in AI finance the SETEH framework, a diverse global outlook is needed to implement laws and regulations that ensure that people use AI tools for only positive reasons in all domains, AI and human intelligence often contradict and are in conflict with each other. In finance, AI-based psychological tools

and human values should be compatible so that all stakeholders can enjoy ease of business. Factors that directly affect AI in the finance domain are

- a) Privacy
- b) Legal regulations
- c) Ethical concerns
- d) AI infrastructure
- e) Human psychology

This research paper broadly divides its objectives into three dimensions:

- a) The privacy and ethical AI tool dimension
- b) The legal and regulatory tool dimension
- c) The human psychology and innovation dimension

The economy and humans experience insecurity and threat if their data are stolen or used for unethical financial or other uses. Artificial intelligence (AI) has simultaneously exposed the human race to significant risks and infinite opportunities. Advancements in technology have made day-to-day life easier, smarter, and more efficient and productive, but their adverse effects remain underemphasised. In 2017, a person in the United States committed suicide because of the irrelevant information he obtained while searching for data on an AI platform. Thus, if an AI tool has the power to take a life, then that makes it more threatening than even COVID-19. AI has no proper thought process or sense of humanity. All it does is conduct data mining to produce output. Does a human being have the tolerance to endure its transparency and data asymmetry in terms of information?

There are no right and wrong rules while using an AI tool. However, compatibility tests are still needed to ensure such tools meet human expectations. A recent article stated that AI has not been very productive in the fintech field. It is not user friendly, and it is increasing unemployment. This raises the following questions:

- a) Does AI need further advancement to make it more human centric?
- b) Can AI comply with legal in fintech and services domain
- c) What will happen if AI transcends the vertical dimension of legal heterogeneity and negatively influence human values either directly or indirectly?
- d) Can humans handle the regressive aspects of AI tools?

1.2 AI TOOLS AND ITS SIGNIFICANCE

Basically to understand the ai tool in finance , it has multi functionality dimensions where it has related diversification in providing the humans the ease to transfer money through digital platform, technology has introduced apps like phone pe, Paytm, google pay and it saved human time , and the proportion of ai advancement in organization still has a vibrant inactiveness to get excited to utilise ai because , its entirely not be regulated with laws and safety compliance where there has been cyber- attacks and threats due to utilizing the ai tool in handling money or for any other purpose, the aspect of gathering information through literature made a broader knowledge expansion in the perspective of variables like cyber threats, fraudulent activities, no proper regulations applied by government , need employee skill training

need of proposed regularized framework to utilize ai, needed robust security and guideline to utilise ai in financial advancement that can create the trust in human minds. In order to address the specified limitations that has been identified by our fellow researcher it is very much valid and significant that there are drawbacks in legal framework and regulations in the ai technology advancement , that proportionate need has to been filled , hence the efficient manner to implement a legal, technological, ethical, safe, human value ,environmental friendly seteh framework will be designed to address the drawback faced by human race after utilising the ai technology. Ensuring the safety and privacy with ethical concerns, the so to be designed legal and policies related to seteh framework needs a well diverse global outlook in implementing the law and regulations that could make human of all categories to utilise ai tool only for positive aspects that protect data's in all domains and services.

1.3 AI IN FINANCE

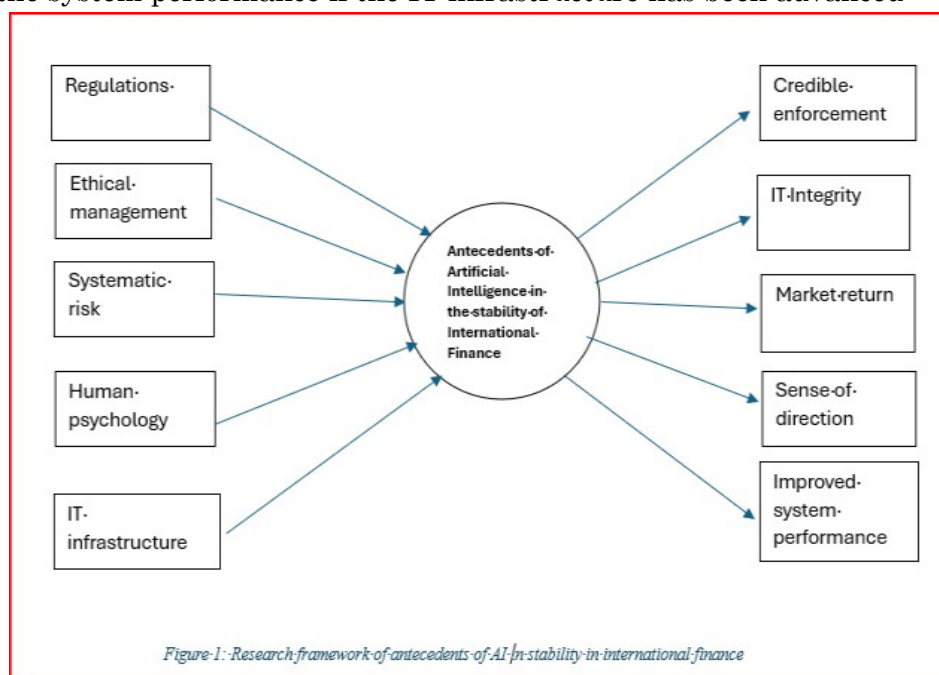
In the literature we could review that human emotions and psychology has been in terms of concerns of conflict , where the ai intelligence and human natural intelligence feel contradicting and conflicting due to which there should be more concern given to ai based psychological tools and human emotional values that can implement the positive aspect of human friendly compatibility tool in every organization from director to all stakeholders that make the process of business ease and finite factors that has direct impact with ai in finance domain are

- a) Regulation
- b) Ethical management
- c) Systematic risk
- d) Human psychology
- e) It infrastructure

The research was broadly described in aspect with security, ethical privacy concerns to data leakage threat while using ai tools, and there has been a proportionate need for scaling up the legal and regulatory aspects of using ai in economy that need of policy making demand which could be determined by implementing seteh framework that ideally combines the legal, human psychology and ai innovation infrastructure aspects to become compatible to every organization and business and services to produce a effective outcome in terms of money, increase in profit and good organizational culture employee involvement factors. The need for flexibility of ai in economy is being stable with, may or may not be producing increase in GDP and exchange rate of money and innovations with respect on change in economic climate and business that should improvise the factors in humans to trust ai tool directly or indirectly for future years or time, based on its technological advancements If there can be a proportionate use of seteh framework that has been ideally designed to collaborate ai in aspects of human psychology, legal, ethical and innovative framework we could provide a evident result in determining the trust quotient can rise between humans and can utilise it in well positive manner rather than using it for negative adverse actions in military and power for destruction of humans.

2. RESEARCH FRAMEWORK

The figure represents the variables that have influenced the role of ai tools in the financial domain that could enhance the safety, ethical, tranquility, efficiency & humanity (seteh) of ai technologies in sustainable financial domain in legal arena, The negative aspects variables that are not attended or concentrated in literature that need to be address directly or indirectly to enhance AI tools landscape in international finance includes regulations, ethical management, systematic risk, human psychology and IT infrastructure If these variables and their issues are addressed, we could create a credible enforcement of AI tools in fintech on legal domain, the IT integrity could be enhanced, could expect a very positive return in the market, and can help the humans to idealize the sense of actions and Directions towards utilising the AI tools and can improve the system performance if the IT infrastructure has been advanced



2.1 *Design/ methodology /approach*

The contribution towards achieving the sustainable ai in finance needs a regulated framework that concepts the ratio imbalance between ai mechanisms with machine intelligence in compliance with the regulatory and legal aspects in the economy encompassing of human values, the variable that directly or indirectly influence the legal repository attributes of ai tools in finance domain are cyber-attacks in fintech; that disrupts the privacy & security of technological data; by creating the cyber threats and systematic risks, where the current criminal legal technology compliance in ai aspects are not advanced to determine the fraud detection and fails to engraved the human trust and security factor of emotions. The methodology to determine the role of drawback of ai technology of fintech in legal compliance can be exceptionally witnessed by adopting the qualitative method of data analysis through indulging the case study review findings by skimming

40 case studies. After analyzing the case studies the high priority independent indicators that need to be addressed in the context of ai in fintech is legal regulatory and policy framework of ai that has the dependent variables such as safety ,user privacy factor,

ethical factor of systematic risks, the role of authoritative regulatory body of ai human psychology ai policy, ai laws ,& ai infrastructure, innovation research. Sustainable AI in finance needs a legal framework that corrects the ratio imbalance between AI mechanisms and machine intelligence while complying with the regulatory and legal aspects of the economy and encompassing human values.

The variable that directly or indirectly influences the legal repository attributes of AI tools in the finance domain is cyberattacks in fintech. This variable disrupts the privacy and security of technological data by creating cyberthreats and systematic risks.

The current criminal and legal technology compliance in AI is not advanced enough to carry out fraud detection and fails to account for human emotions

To determine the drawbacks of AI fintech technology in legal compliance, the qualitative data analysis method is adopted. A total of 40 case study findings are reviewed. High-priority independent indicators that need to be addressed in the context of AI in fintech are highlighted. The AI legal regulatory and policy framework's dependent variables are safety, user privacy factors, ethical factors of systematic risks, the role of authoritative regulatory bodies of AI human psychology, AI policy, AI laws, AI infrastructure, and innovation research.

Secondly an pilot study has been conducted based on the relation to determine the usage and efficiency of AI in IT law and infrastructure where the influencing factors includes regulations, psychology, risk and ethical management . there were nearly 23 questions framed and that indicates the hypothesis relating to each factors that influence the efficiency of AI and IT law and infrastructure.

The questionnaire has been attached in annexure1. The questionnaire has been distributed in social networks like linked, Facebook, PhD research students, professionals in finance sector and other services. The respondents were around 49 people, who are from diverse professional background. considering the inference from Figure 2 below The respondents age where seem to be 48.9% belong to young adult age group of 20-35 years old and remaining 33.3% of people belong to adult age group from 36-50 years old and the remaining 17.8% people belong to older age of 50-65 years. And analyzing from figure 2 83.7% respondents where male and 16.3% respondents where female where taking in to consideration of their working experience from the response from figure 4 we could infer that 34.9% people have more than 15 years of working experience, 25.11% of people have professional experience of 10- 15 years and 20.9% of people have 6-10 year experience and remaining 18% of people have less that 5 year experience with considering the inference from Figure 5, 64.5% people have completed college graduate degree, 8.9% people have completed college and less that 3% have their DBA and PhD degree. The questionnaire has been distributed in social networks like linked, Facebook, PhD research students, professionals in finance sector and other services. The respondents were around 49 people, who are from diverse professional background. considering the inference from Figure 2 below The respondents age where seem to be 48.9% belong to young adult age group of 20-35 years old and remaining 33.3% of people belong to adult age group from 36-50 years old and the remaining 17.8% people belong to older age of 50-65 years. And analyzing from figure 2 83.7% respondents where male and 16.3% respondents where female where taking in to consideration of their working experience from the response from figure 4 we could infer that 34.9% people have more than 15 years of working experience, 25.11% of people have

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4: working experience of respondents

The target audience in this research includes the people related with usage of ai tools with respect to the diverse domains, see figure 6 that includes 27.3% were professionals in IT, 27.3% were from service, finance, management, entertainment, 3% were directors, 13.6% were from Manufacturing industries, and remaining were from financial, audit, banking, energy services etc. The below pie chart represents the job position of people who responded this survey.

Research problem and questions

There are no right and wrong rules while utilising ai tool but will there be a compatibility test mode that still need revision that can meet up human expectations without error, while contrasting the ai tool in financial technology. The recent article in futurism stated that still ai has not been so productive in fintech, where humans feel that it is not user friendly and creates more unemployment, that arises questions in various dimensions like

- a) Are the regulations still needed for advancement towards ai in the stability of international finance?
- b) Does ethical management have a significant influence on artificial intelligence in stability of international finance
- c) How systematic risk has the influence on artificial intelligence in stability of international finance
- d) Does human psychology have significant relationship with artificial intelligence in stability of international finance
- e) To what extent it infrastructure influence the artificial intelligence in stability of international finance

This research further deep dives in to the collaboration between ai legal frame work and machine intelligence ai where there can be seen a proportionate distance of human ethics and safety of concern incompatibility that need to be addressed and to determine the indicators that made ai human centric tool a failure, so the broader area of research done in the ai advancement includes the research questions of

2.2 Research objectives

- a) To identify intended regulations which have significant influence on artificial intelligence in stability of international finance
- b) To evaluate the ethical management which has the significant influence on artificial intelligence in stability of international finance
- c) To assess the systematic risk which influences artificial intelligence in stability of international finance
- d) To ascertain the extent of human psychology in influencing artificial intelligence in stability of international finance

- e) To establish it infrastructure of artificial intelligence in stability of international finance

2.3 *Research objectives*

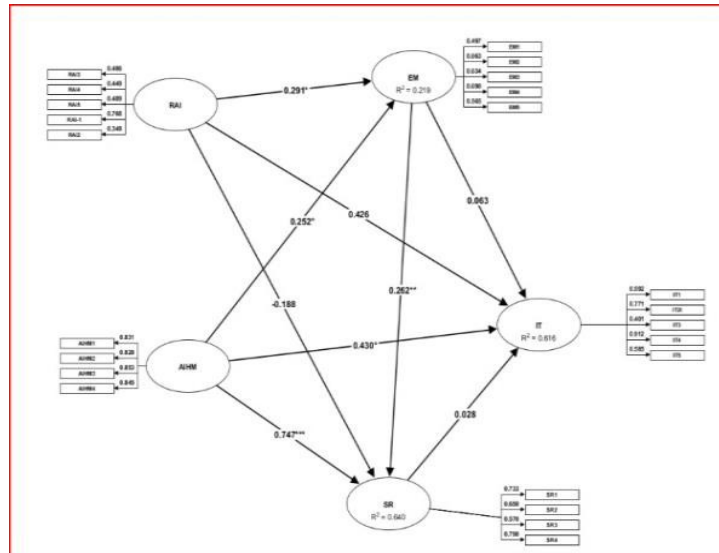
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- c) To assess the systematic risk which influences artificial intelligence in stability of international finance
- d) To ascertain the extent of human psychology in influencing artificial intelligence in stability of international finance
- e) To establish it infrastructure of artificial intelligence in stability of international finance

2.4 *Discussion analysis and outcome measure*

This research has been explained based on consent reviewing and skimming of 50 journals with pilot study that has clearly stated the advancement of ai tools in fintech, we could rationalize the data obtained in mere information basis and with the relevant collection of data mining through the case studies it has been theoretically significant that there is a need for legal regulatory, ethical and secure framework for ai in finance and other domains related with ai cyber-attacks and data leakage to create a greater impact of danger to business in state or regional or national or international level of economy where at the end its human value and beliefs is what going to suffer in adverse output with utilising the ai, hence the five dimensions which need at most detailing for proper utilization of ai too, are, legal and regulatory aspects, human psychology ,innovation and IT infrastructure, systematic risk in Financial technology and finally cyber security and technology of ethical management aspects.

The structural equation modeling of AI in International finance

3. The artificial intelligence IT infrastructure and law are considered to be the independent variable where from the structural equation modeling analysis we could infer that the reliability of artificial intelligence and human psychology factor towards systematic risk as the intermediate variable has 98% influence but there seem to be no impact with IT infrastructure and law .and brain has more that 99.8% impact on AI IT infrastructure and law then the influence of systematic risk is around 95% over AI IT infrastructure and law the impact of ethical management over AI it and infrastructure is around 81%.The least reliability impact is regulations of AI which seems to be around 60% over IT and infrastructure.



3. SOCIAL DIMENSION DISCUSSION AND ANALYSIS WITH HYPOTHESIS GENERATION

3.1 hypothesis 1: Discussion: The variable regulations have to be revised in-order to address the drawback faced in AI technology in financial domain, there has been frequent misconduct of regulations some of the negative connotations includes lack in technical expertise, to improve the cybersecurity landscape, and policy regulations that can further enhance flexibility of usage of AI tools for consumers friendly aspects. The negative factors that govern the durability and enforcement of regulations in AI technology includes

1. Shortage of technical expertise
2. Ethical and regulatory laws
3. Development of the AI ecosystem
4. Governance
5. Evolving cybersecurity landscape
6. Policymakers, urban planners, and technology leaders
7. Regulatory frameworks
8. AI in legal contexts WITH machine-simulated intelligence
9. New legislation, compliance with existing law without hindering innovation or competitiveness
10. Empirical legal research is required to analyse how well regulating AI systems works in action, in the interaction between law, technology, and society
11. Legal, and technical scrutiny of data

Research question: How significantly does the regulations of AI influence the AI Legal infrastructure and innovation landscape.

Hypothesis1(H1): the regulations of AI influence the AI Legal infrastructure and innovation landscape.

No	Determi of nation hypothesis	Loadings	t-values t	Inferenc e on
		> 0.8	> 2.59	

		Strong 0.5 < L < 0.8 Moderat e	Strongly Significan t	Loading s
H1a	AI tools being used in your day today financial activities	0.747	1.4579	moderat e

The enhancement in implementation of Legal model of data processing in AI technology can indeed improve the data flow filtration of protection of data that can be outperformed with adopting a legal and regulatory conceptual model in defining the data are obliged to regulations to pass through the out solution while utilising the AI tools

Preposition: with advent of utilising the AI tools, the basic aspect of data and their security has the importance to be protected and henceforth the proposed detailing of law and regulatory division of AI has to determine the credibility of value of Security and protection to data either in corporate world, personal usage or industrial aspects, the need for usage of technical aspects of AI tool should undergo a compatibility.

3.2 Hypothesis 2: AI and ethical management

The Variable ethical management has been determined with study of literature alongside a reason to depict the trust factor decrease in humans by utilising the AI tools in financial technology. The data has to be ethical but far more considering the past data the data seems to be of no control and no correlations with needed output a human expects, which can otherwise termed as an error in the formula of data mining in AI tech Some evidence that could relate with why ethical management system needs to be concentrated to enhance the efficiency of the utilising AI tools in the future or present era is

1. Uncertainties,
2. Technological constraints
3. Robust policy
4. Data protection
5. Transparency, accountability, and human involvement.

Outcome

H1b	data has been Breached while using AI tools	0.405	1.0990	weak
H1C	organization comply with AI technology regulations to utilize it in financial technology services	0.560	1.2021	weak
H1d	privacy in using AI tools.	0.465	1.3465	weak
H1e	AI tools require legal standardization in data	0.567	1.023	weak

The hypothesis generation

Hypothesis1(H2): the Ethical management of AI influence the AI Legal infrastructure and innovation landscape

H2-To test the effect of ethical management of AI (EM) on IT AI infrastructure innovation and Law(IT) in th international finance

Outcome:

The hypothesis generation

H1:To test the regulations of AI influence the AI Legal infrastructure and innovation landscape.

Hypothesis1(H1): the regulations of AI influence the AI Legal infrastructure and innovation landscape.

H1-To test the effect of regulations of AI (RAI) on IT AI infrastructure innovation and Law(IT) in the international finance

The relationship between the regulations of AI over IT law and infrastructure plays a crucial role in terms of determining the relationship with T VALUES 0.547, WHERE THE REGULATIONS IS MUCH INFLUENCING ITS IMPACT

OVER AIIT law and infrastructure.

Hence ethical management has indirect effect of AI IT through human psychology AI. The concentration towards the Gen AI terminology in ethical management could enforce the stability in finance and financial management systems by providing a strong foundation to detach the burden of hacking, cyber threats, unethical standards determination of AI tools in fintech towards providing a AI ethical landscape in terms of improving the factor IT integrity where the data input and data output undergoes a rigorous testing of what if and if analysis which can help us to determine the standard error and negative outcomes before heading the tested data in information systems and congruence towards the solutions presented in terms of answer for questioning the credibility and authenticity of data and information's.

Preposition

The key performance indicator that can evolve the basic ethical standards of utilising tools can be obtained with proportionate outcome with perspective of providing the logic output to humans by rectifying the system error and should enhance the sense of acceptance in with ethical concerns can either way create a clarity in determining the advanced and appropriate decision by adopting ways like decision tree, clustering and machine learning tools in data and information asymmetry which can predict the future outcome by Amending the ethical rules and regulations of AI in terms of considering the societal political, technological legal and economic aspects of the country, which may enhance the durability of utilising the AI tools.

3.3 Hypothesis 3: Discussion

The determination of systematic risk of the AI tools do play a crucial role in demanding the Outcome to be led free of risk based on the data structure and data architecture, which further

need data science and analysis which can be done by adopting a data mining steps to deliberate the risk causing factors in AI technologies. Some of the risk the AI has faced while in the past includes the factors like

1. Professional codes
2. Standards of business behaviour

3. Consult practitioners
4. Risk Management
5. Cybersecurity risks
6. Risk analysis.
7. Fraud and labour employment

Outcome

The hypothesis generation

H3:To test the Systematic risk of AI influence the AI Legal infrastructure and innovation landscape.

Hypothesis1(H3): the systematic risk of AI influence the AI Legal infrastructure and innovation landscape.

The relationship between the systematic risk management of AI over IT law and infrastructure plays a crucial role in terms of determining the relationship with T VALUES 907, WHERE the systematic risk management is influencing its impact over AIIT law and infrastructure

Hypothesis H1A:The Impact of systematic risk management on IT infrastructure and AI law through AI human psychology.

From the figure 3.3B Where human psychology AI is the mediator based on systematic risk management towards the AI IT law and infrastructure

From utilising the sobel test T value can be determined by T value of IT=(T Value Of aihm*T Value Of sr)=0.701*0.759=0.5321, which can be stated that T value is falling near to specified value hence it is significant. Hence systematic risk management has indirect effect of AI IT through human psychology AI.Addressing the risk factors such as human errors, financial and technological constraints, the tools installation difficulties, the scalability of project, system failures, the human emotional factors like fear, trust lack, the coding error, wrong automotive data generation, the fraudulent risk it can and should be minimized by adopting the risk analysis matrix that can depict the future adverse outcome of these specified errors, hence to transform the ai tools to be efficient and useful in productivity and efficiency of the desired tool, the output to overcome the negative aspects of risk and details we can be Ready to face the adverse effects of outcome to handle the situations in a more structured manner and less loss in terms of money, man machine and infrastructure . Hence analyzing and predicting the systematic risk are just going to provide us the prediction towards how the risk need to be handled and managed to face the adverse side of utilising AI tools in a wrong way.

Preposition

The general outcome that need to be addressed by minimizing the risk are prolonged usage of error less coding and programming, human error reduction and cost savings which can efficient the usage of AI tools , the men machine money are basic three factors that are always related to specified risk factors detailed above where the capacity to adhere the negative adverse failure actions caused by utilising the ai tools can be predicted and managed henceforth the need for model and conceptual framework to undergo any adverse situations caused due to these errors need to be addressed by providing the management of risk in AI tool framework that can interchange the negative affects to positive outcomes, which can be beneficial to humans and society. Error identification methods need to be implemented in order to enhance the credibility

of the AI tools and technology where the failure can be predicted before and reduce the cost used in risk and failure of products

Research question: How significantly does the Ethical management of AI influence the AI Legal infrastructure and innovation landscape Hypothesis1(H2): the ethical management of AI influence the AI Legal infrastructure and innovation landscape				
No	Determination of hypothesis	Loading s > 0.8 Strong 0.5 < L < 0.8 Moderate	t-values t > 2.59 Strongly Significant t	Inference on Loadings
H2a	AI tools are user friendly to perform financial operations	0.666	1.38	Moderate - significant t

3.4 Hypothesis 4: Discussion

The artificial intelligence are the replica of human brains, the neural network has the capacity to function in such a manner that the human mind does the actions and decisions with logic and practicability, hence with comparing the AI the aspect of duplicating human mind do have some drawbacks, some of them were the

H2b	AI tool save time while utilizing in the areas of fintech.	0.823	1.95	Strong-significant t
H2C	AI tool speculate with ethical standardizatio and tranquility	0.745	1.64	Strong-significant t
H2d	AI determine robust mechanisms to boost the AI error issues with blockchain machine learning	0.761	1.788	Strong-significant t
H2e	Performance of AI fintech tool is very high	0.721	1.511	Strong - significant t

1. Continuous improvement mindsets
2. Transparency, accountability, and human involvement
3. Human ingenuity
4. Trust

5. Fostering a culture of cybersecurity
6. Collaboration among stakeholders
7. Robust AI to avoid any adverse outcomes related to economic, ethical and social issues policymakers and enhance the stability of the financial system
8. Lack of skilled employees
9. Compatibility issues with legacy systems,

Outcome

The hypothesis generation

H4: To test the Human psychology of AI influence the AI Legal infrastructure and innovation landscape Hypothesis1(H4): the human psychology of AI influence the AI Legal infrastructure and innovation landscapet

Hypothesis H4A: The Impact of human psychology on IT infrastructure and AI law through AI human psychology From utilising the sobel test T value can be determined by T value of IT=(T Value Of aihm*T Value Of Em)=0.392

*0.61=0.241, which can be stated that T value is falling near to specified value hence it is significant. Hence ethical management has indirect effect of AI IT through human psychology AI. Psychology is the term used to define the way the human mind reacts to the environment under various circumstances and situations. The positive way of facing a situation of conflict by an individual considering the overall profit of the customs clearance of goods and procedures is defined as psychological capital. Understanding human nature is psychology, it is the process of explaining the nature of the human considering the nature of the behaviour of human-based in the environment he has been handling. Psychology basically concentrates on complexity, integrity, and sociality. Emotional psychology the concept of triggering one's emotion to reach and attain a goal is termed emotional psychology. Emotion psychology can be classified into two forms Reappraisal and suppression. Reappraisal of emotions: a re-evaluation of emotion acting stimuli to change its acting or behaviour based on their thoughts. More sharing of emotions and interpersonal effects on emotional behaviour and evaluation of emotions. Reappraisal of one's emotions can eventually increase the quality of work and can improve self-satisfaction towards his career in other terms job satisfaction. In other terms, suppression are the control of emotions or neutralizing emotional behaviour in other terms less sharing of emotions. Regulations of expressive behaviour and interpersonal relationship, motivations of behaviour to express one state of intentions and providing incentives of others behaviour.

Research question: How significantly does the Systematic risk management of AI influence the AI Legal infrastructure and innovation landscape
Hypothesis1(H3): the systematic risk management of AI influence the AI Legal infrastructure and innovation landscape

No	Determination of hypothesis	Loadings > 0.8 Strong 0.5 < L < 0.8 Moderate	t-values t > 2.59 Strongly Significant	Inference on Loadings
H3a	the human emotional dilemma can be determined by utilizing AI tools	0.747	1.46	Strong-significant
H3b	Adoption of right AI technology can ensure right output to ensure effective decision making	0.747	1.47	Strong-significant

Research question: How significantly does the AI Human psychology and brain influence the AI Legal infrastructure and innovation landscape
Hypothesis1(H4): the AI human psychology and brain influence the AI Legal infrastructure and innovation landscape

No	Determination of hypothesis	Loadings > 0.8 Strong 0.5 < L < 0.8 Moderate	t-values t > 2.59 Strongly Significant	Inference on Loadings
H4a	Digital AI fintech law need to be enhanced with the solicitation towards psychological emotional constraints of human brain and logic	0.933	2.79	Strong-significant
H4b	AI driven behavioral environment leads the technological advancement and legal rationality	0.915	3.5	Strong-significant

H3 C	cyberlaw and regulations minimize the cyber threats in businesses	0.720	1.400	Strong-significant
H3d	The architecture of AI tools can be effectively managed by cost management risk measures	0.855	2.037	Strong-significant
H4 C	strengthening AI Laws and cybersecurity leads to effectiveness of Fintech	0.885	3.20	Strong- highly significant
H4d	strengthening generative AI regulations leads the organization culture	0.993	4.49	Strong- highly significant

Preposition

The relationship between cultural value and emotional regulation.

Social complexity, while considering the organization there exists always the social complexity in the organization. The people involved in a project require social interactions In order to pursue their work. Need for social order Culture as meaning and information systems Value related to emotions Value related to interpersonal relationship Norms regarding emotiona regulation. Emotion regulation contributes to inter-structural adjustment Reappraisal mainly requires group work organization, management, and social group work

The relationship between cultural value and emotional regulation.

Social complexity, while considering the organization there exists always the social complexity in the organization. The people involved in a project require social interactions In order to pursue their work. Need for social order Culture as meaning and information systems Value related to emotions Value related to interpersonal relationship Norms regarding emotional regulation. Emotion regulation contributes to inter-structural adjustment Reappraisal mainly requires group work organization, management, and social group work, relating to the people working in the industry. Suppression relates to power distance, long-term orientation -uncertainty. Cultural values are nothing b u t the combination of reappraisal and suppression and the relationship between them

3.5 Hypothesis 5 Discussion

The IT infrastructure plays a critical role in analysing AI in fin tech and the aspect of adopting a new technology in to the present method of traditional approach to financial domain still needs technological advancement to adhere the system compatibility and scalability to adopt those technological advancements, hence AI are huge and need more investment there need a special considerations to adopt those technology. where humans

need to get to understand those software's easily which can be only done by improving the IT infrastructure.

Some of the variables that directly or indirectly influence the IT infrastructure are

1. innovate and Adapt
2. scalable AI solutions
3. resource allocation
4. AI-enabled infrastructure
5. Scalable AI solutions

Outcome:

The hypothesis generation

H4: To test the dependency of AI influence the AI Legal infrastructure and innovation landscap The need to improve the technological compatibility will be fulfilled only by adopting the technological infrastructure by imposing a budget friendly introduction to software technology compliance that could enhance the user friendly nature to humans who have get adapted to AI technology in to their day today life The need to invest in those AI technology needs proper project management techniques which can help in creating a way to make the IT infrastructure to be more sustainable related with finance and fintech

Preposition

The need for It infrastructure investment to adopt AI technology is need to designed and have to make sure that each human are able to understand it easily and we should reduce the complexity of usage of AI technology and testing. Hence while mitigating the difficulty in implementing the infrastructure to adapt AI we should make sure that it is human friendly and of out of error with 0%.Design/ methodology /approach The contribution towards achieving the sustainable ai in finance needs a regulated framework that concepts the ratio imbalance between ai mechanisms with machine intelligence in compliance with the regulatory and legal aspects in the economy encompassing of human values, the variable that directly or indirectly influence the legal repository attributes of ai tools in finance domain are cyber attacks fintech; that disrupts the privacy & security of technological data; by creating the cyber threats and systematic risks, where criminal legal technology compliance in ai aspects are not advanced to determine the fraud detection and fails to engraved the human trust and security factor of emotions. The methodology to determine the role of drawback of ai technology of fintech in legal compliance can be exceptionally witnessed by adopting the qualitative method of data analysis through indulging the case study review findings by skimming 40 case studies and adopting quantitative research with collection of data from stake holders like AI data science managers, CEO, and AI researchers and IT companies employee who work with AI concepts.. After analyzing the case studies the high priority independent indicators that need to be addressed in the context of ai in fintech is legal regulatory and policy framework of ai that has the dependent variables such as safety ,user privacy factor, ethical factor of systematic risks, the role of authoritative regulatory body of ai human psychology ai policy ,ai laws ,& ai infrastructure, innovation research.

Discussion

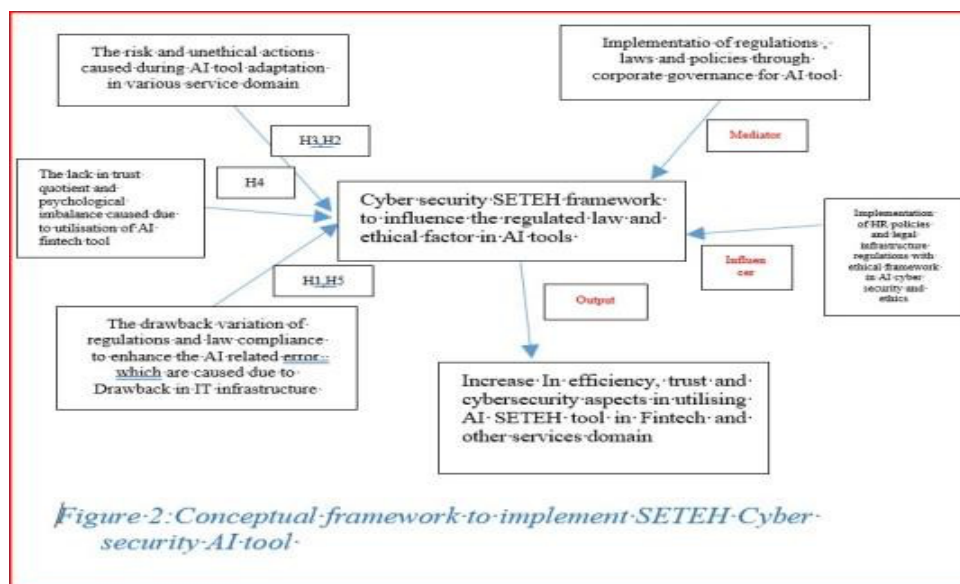
applications of legal landscape infrastructure can entertain a significant positive

correlation in humans ease in utilising day to day activities through AI platform, thus could impact the economic development in terms of GDP and standard of living of people.

4. CONTRIBUTION TO APPLIED RESEARCH

The SETEH framework was developed to regulate the SETEH of AI technologies in the sustainable finance domain. It aims to mitigate the risks and threats of financial instability in terms of cyberattack compliance. The framework's implementation will address trust and fear factors in humans and improve trust through cybersecurity quotient amendments (AI governance and laws) with the involvement of the authorities, regulatory bodies, and stakeholders. The object of using this framework is to adhere to human values in AI technology in the international fintech domain in terms of ethics, cultures, organisational rules. The application of AI in risk needs a broader engagement in determining the way in and out of how to conceptualize the detailed impact of aversion in financial and other services landscape. In most industries AI is determined to create risk and technical complexity to adapt to the technical environment due to the cause of information asymmetry. The model that can enhance the risk aversion of utilising AI tools in fintech and other services can be addressed by adopting a risk AI model that has the direct and indirect factors related to distinct ideology of how risk management model tools have the wider significance towards mitigating risk in AI finance technology and services. Some of the advantages in implementation of the SETEH framework can gain its supportive hypothesis of implementation that are due to the sequential modelling analysis done with aspect of how regulations, systematic risk, ethical management and finally Human psychology could influence the congruence of the need to reform the cyber law and information technology law acts to ensure a human privilege to stay in peace and emotionally strong to determine the positive aspect of AI tools to enhance his or her day today

determine a variant result and solutions to the risk and unethical actions that are occurring due to utilization of AI and hence the role of Law, regulations and technical utilization in ways with addressing AI tool error with proper practice of adapting HR policies and ethical considerations that can enhance the efficiency of utilising AI tool with implementation of Cyber security frameworks



Research question: How significantly does the AI Human psychology and brain influence the AI Legal infrastructure and innovation landscape				
Hypothesis1(H5): the AI human psychology and brain influence the AI Legal infrastructure and innovation landscape				
No	Determination of hypothesis	Loadings > 0.8 Strong 0.5 < L < 0.8 Moderate	t-values t > 2.59 Strongly Significant	Inference on Loadings
H5a	IT law technology and infrastructure	0.793	2.48	Strong-significant
H5C	training from experts is mandatory for effective deployment and utilization of the AI fintech	0.805	2.66	Strong-
H5d	The three aspects of legal, psychology and innovation are mandatory for effective results of generative AI in fintech.	0.840	4.113	Strong-highly significant
H5e	Future Human robots and Human cognitive brains are effectively used for breakthrough outcomes in business with fintech	0.606	1.3776	Strong-significant

5. CONCLUSION

technological financial and other digital activities in a very

- Efficient manner
- Being in ease to use
- Trust the AI guidance
- Information Genuity
- Being humanity based
- Cost and time efficient

The congruence between AI regularities with respect to sustainability in finance need a gesture of correlation with the factors involving like legal compliance, IT infrastructure,

ethical and psychological compliance which can be attained through mediator factors like Law for security, tranquility frame work design that may or may not be directly related to efficiency in laying cybersecurity framework model The conceptual framework has been designed in order to With the conduct of AI tool legal framework seteh , the broader expectation to address the need for privacy and security towards data leaks and cyber hacks, the human values, laws, policy and innovation Of utilising the advancement tools of AI can stabilize the economy in aspects like wealth, finance, GDP, poverty, technology that can directly or indirectly influence the standard of living of people in the society, if with the condition that they utilise with authenticity, law abiding, and ethical in actions . Hence in short, we could state the future world is technological advancement and stability towards finance has the key major role in growth of economy in innovation and research, and technology advancement at global scale.From the basic aspect of determining the role of IT innovation infrastructure legal landscape as the enhancement criteria, we could determine that there is a need to evaluate the legal area such as cyber laws, security , information authentication along with human emotional stability considerations in utilising AI tools in fintech still needs a further rule enactment and technology law refinement to ensure that the data or information provided to public needs a seteh frame work where the safety, authenticity, ethics, humanity and tranquility aspects of data of individuals has been protected and safeguarded by the cyber law and information and technology act ith intact modulation of people well being and safeguard them from loss in money, peace and ensure the future AI area a place to deploy trust, humanity and peace within nations and country

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