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AI + GOVERNANCE: - AI IMPACT ON GOVERNMENT

Pratik H. Varsale.
varsalepratik5@gmail.com
R.C.P.E.T'S Institute Of Management Research And Development, Shirpur.

ABSTRACT

Artificial Intelligence (AI) is becoming a key technology in public governance. It allows governments to improve efficiency, transparency, and decision-making processes. This paper looks at how AI fits into governance systems. It focuses on its use in public administration, policy analysis, service delivery, and regulatory enforcement. By using large-scale data analysis, machine learning, and automation, AI can enhance resource allocation, cut down administrative delays, and strengthen services for citizens.

However, adopting AI in governance also brings important challenges. These include risks to data privacy, ethical issues, algorithmic bias, and concerns about accountability. This study reviews current AI governance frameworks and points out the need for strong regulatory measures and human oversight to ensure responsible and inclusive use. The paper stresses that AI should act as a decision-support tool instead of making decisions itself. This approach helps maintain democratic values and public trust. The findings indicate that combining technology, ethical standards, and policy regulation is vital for effective and sustainable AI-enabled governance.

KEYWORDS

Artificial Intelligence,
E-Governance, Public Administration,
Ethical AI, Data-Driven Decision Making,
Digital Government .

INTRODUCTION

Artificial Intelligence (AI) is increasingly being employed in governance to enhance efficiency and decision-making. Governments employ AI in various sectors like public service delivery, healthcare, education, taxation, and law enforcement. AI assists in the analysis of vast amounts of data, process automation, and evidence-based decision-making. However, the employment of AI in governance is accompanied by concerns regarding data privacy, transparency, bias, and accountability. Improper regulation may result in the misuse of AI and the disregard of citizens' rights. Adequate AI governance is required to ensure the ethical and responsible use of AI technologies.
The present research work is based on the application of AI in governance, its advantages, disadvantages, and the need for proper regulatory measures.

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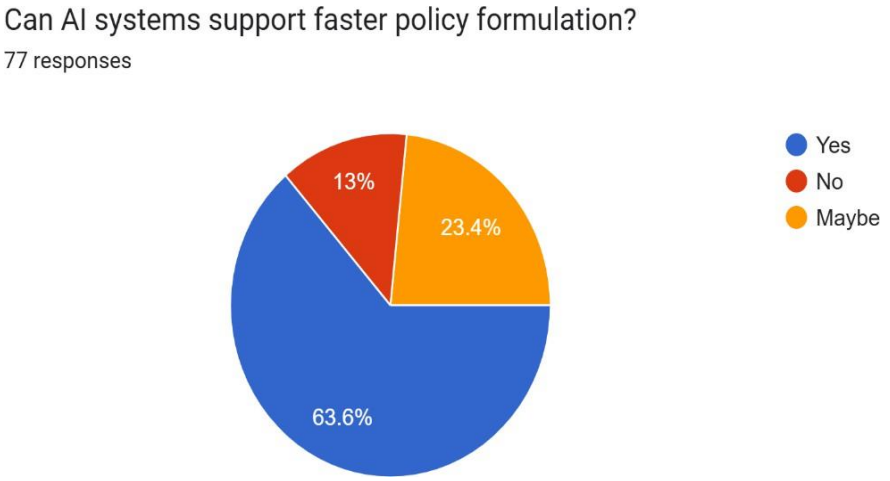
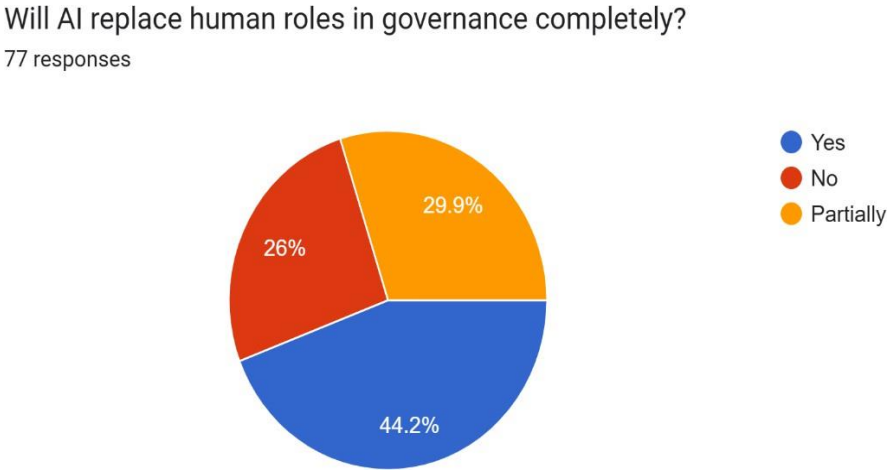
OBJECTIVES OF THE STUDY

a. To comprehend the notion of Artificial Intelligence in governance.
b. To analyze the application of AI in public administration.
c. To determine the advantages of applying AI in governance.
d. To critically analyze the challenges and risks involved in the application of AI in the public sector.
e. To comprehend the ethical, legal, and transparency aspects of AI in governance.
f. To understand the importance of having proper regulatory frameworks for AI.
g. To propose ways for the ethical application of AI in governance.

RESEARCH METHODOLOGY





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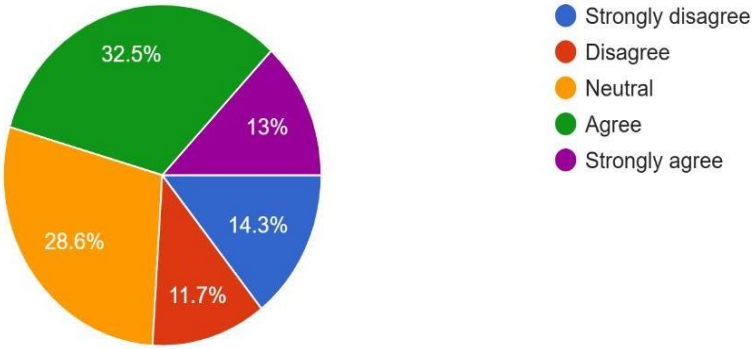
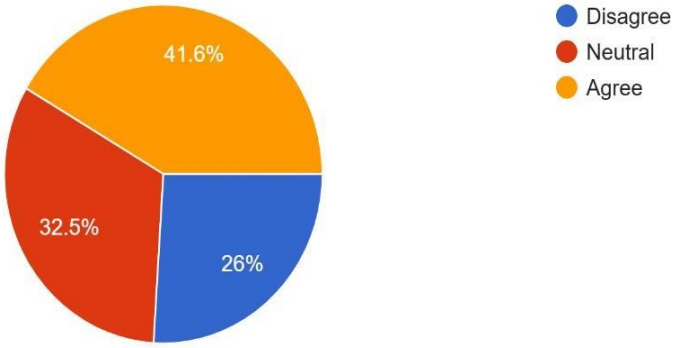
Can artificial intelligence improve efficiency in government decision-making?

77 responses



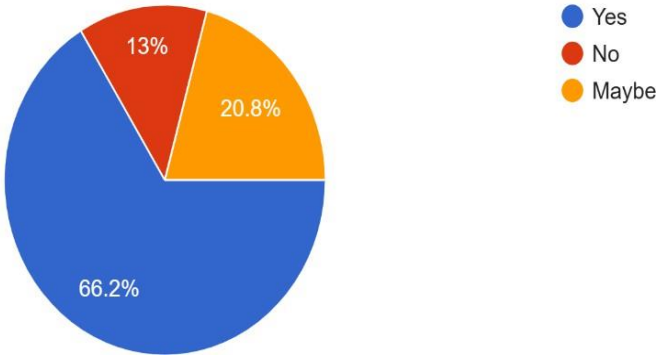
Will AI transform traditional governance models?

77 responses



Does AI reduce human bias in public service delivery?

77 responses



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HYPOTHESIS

H1: Will AI replace human roles in governance completely?

Thus, Applying The Formula X2 = ∑ (Oi-Ei)2 / Ei

Here, Oi= Observed Frequency (Response Collected From Survey),

Ei= Expected Frequency (Expected Response) Showing Calculation Of ∑ (Oi-Ei)2 / Ei In Maharashtra State.

∑ (Oi-Ei)2 / Ei = 4.22

Sr. no	Options	Oi	Ei	Oi-Ei	$(Oi-Ei)^2$	$(Oi-Ei)^2/Ei$
1	Yes	34	25.7	8.3	68.89	2.68
2	Partially	23	25.7	-2.7	7.29	0.28
3	No	20	25.7	-5.7	32.49	1.26
Total		**77**				**4.22**

Degree Of Freedom (D.F.) Is 2

Therefore, Tabulated Value is 5.991* X2 = 4.22 < 5.991*

H2: Will AI transform traditional governance models?

Thus, Applying The Formula X2 = ∑ (Oi-Ei)2 / Ei

Here, Oi= Observed Frequency (Response Collected From Survey),

Ei= Expected Frequency (Expected Response) Showing Calculation Of ∑ (Oi-Ei)2 / Ei In Maharashtra State.

Sr. no	Options	Oi	Ei	Oi-Ei	$(Oi-Ei)^2$	$(Oi-Ei)^2/Ei$
1	Agree	32	25.7	6.3	39.69	1.54
2	Neutral	25	25.7	-0.7	0.49	0.01
3	Disagree	20	25.7	-5.7	32.49	1.26
Total		**77**				**2.81**

∑ (Oi-Ei)2 / Ei = 2.81

Degree Of Freedom (D.F.) Is 2

Therefore, Tabulated Value is 5.991* X2 = 2.81 < 5.991*

CONCLUSION

This research work emphasizes that Artificial Intelligence holds immense potential for the betterment of governance through increased efficiency, transparency, and data-driven decision-making. The results clearly reveal that Artificial Intelligence can be used for the betterment of public administration, policy-making, and service delivery. The hypothesis test reveals that Artificial Intelligence will not replace human intervention in governance but will act as an enabler.

In Conclusion, Artificial Intelligence should be used as a decision-support system, not as a decision-maker. There is a need for a balanced approach that focuses on the use of technology, ethics, and policy regulation for the development of responsible and effective Artificial Intelligence-based governance systems.

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