



WELCOME TO SAI 20 Senior Official Meeting

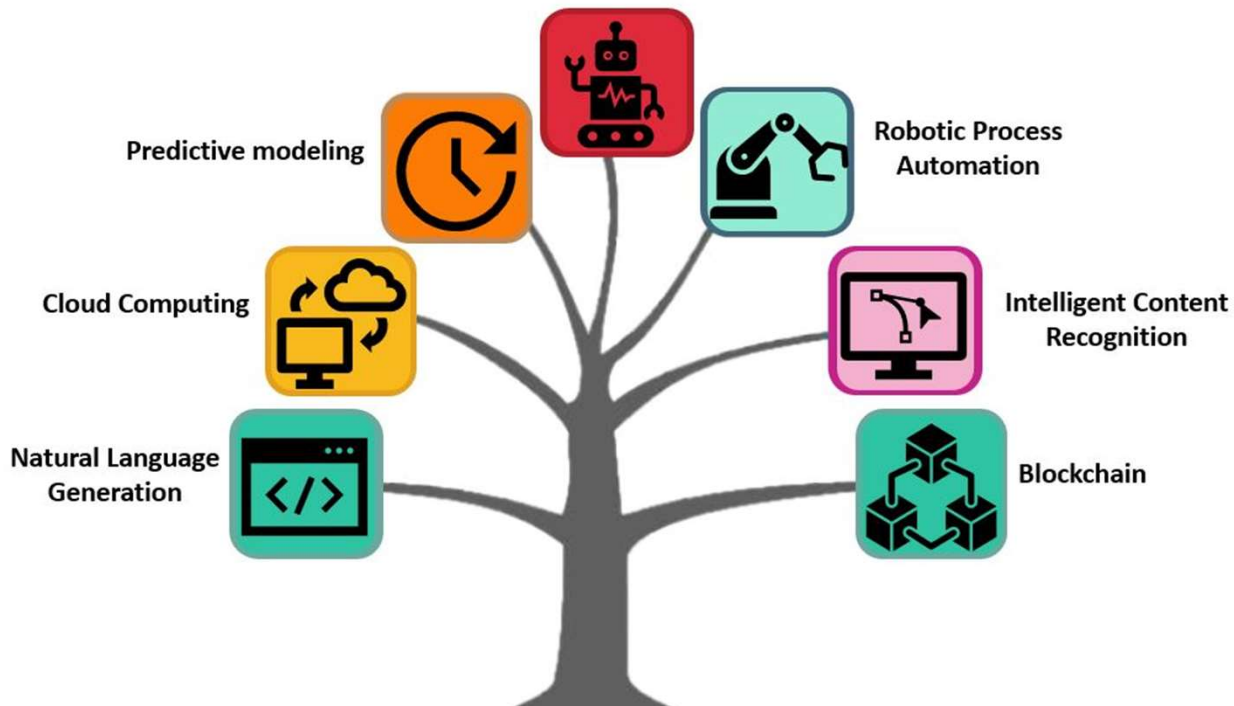
Responsible
Artificial Intelligence



वसुधैव कुटुम्बकम्
ONE EARTH . ONE FAMILY . ONE FUTURE

Components of Artificial Intelligence

Intelligent chatbot



Artificial Intelligence (AI)

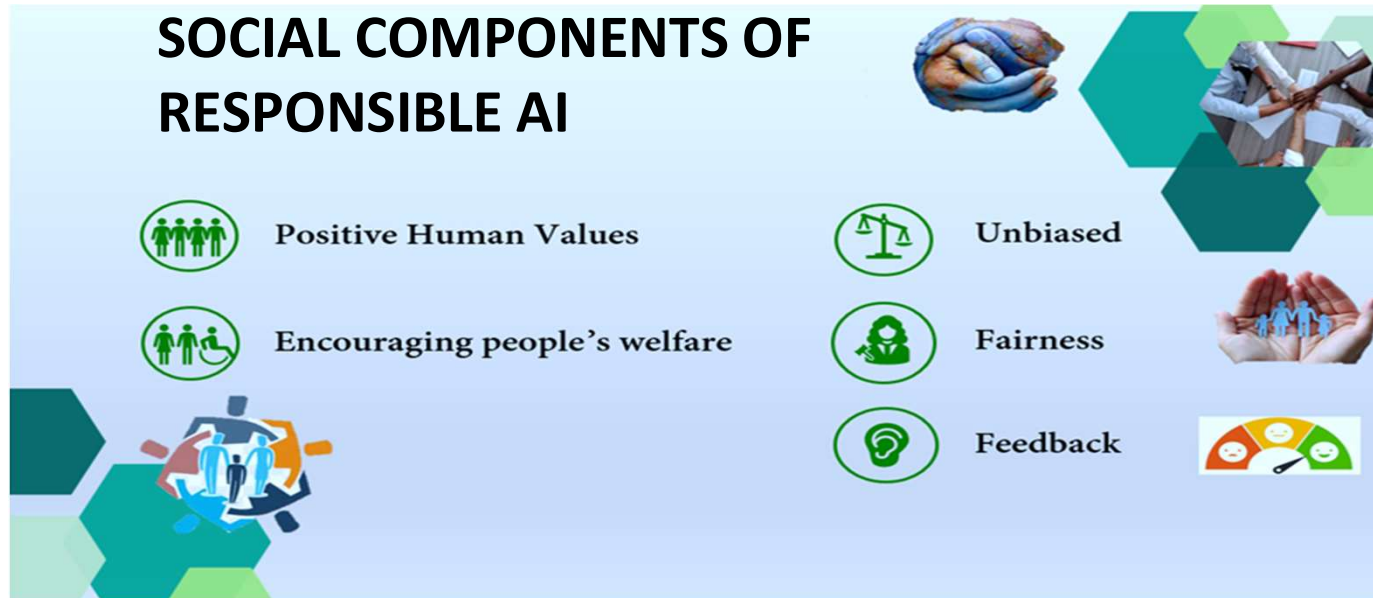
Machine Learning (ML)

Deep Learning (DL)

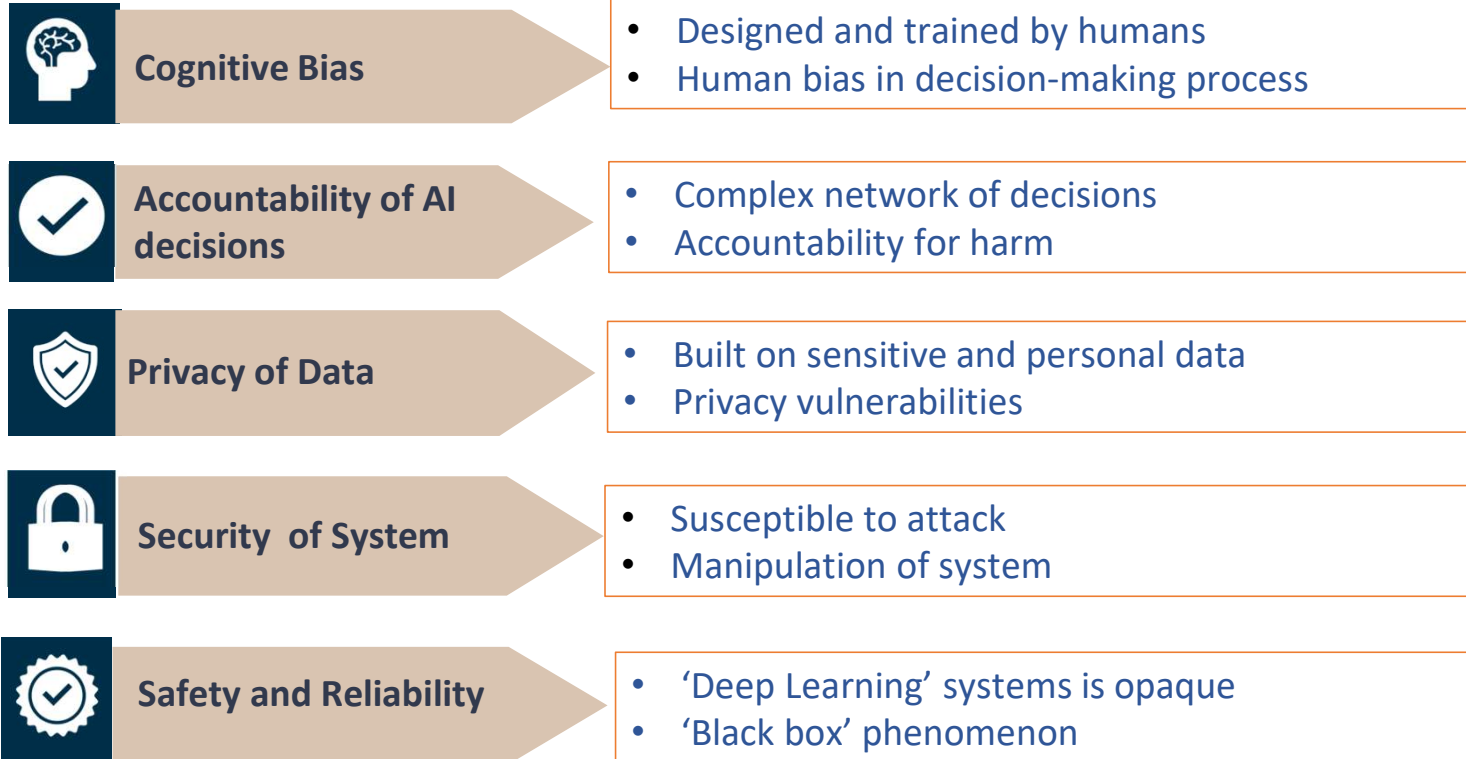
Responsible AI...



Can AI be used for-
 betterment of the **Common man**?
 solving **Societal problems**?
 benefit of the **Women, Farmers, Students**?



Why Responsible AI?






Resonance of SAI20 & Responsible AI principles



Global Perspective on Responsible AI



OECD 
AI Ethics guidelines,
Principles on AI

Brazil 
National AI Strategy

Russia 
National Strategy for AI

UNESCO 
Global agreement on AI
principles and challenges

China 
AI Development Plan

Saudi Arabia 
National Strategy for AI

Australia 
AI Action Plan

Japan 
AI Technology Strategy

South Korea 
AI R&D Strategy

Key AI Initiatives by Government of India



National Program on AI



Responsible AI #AIFORALL



IndiaAI Portal



Centre for Excellence in AI



Safe and Ethical AI Policy-TN



Global Partnership on AI

Responsible AI - Building Blocks

Data Governance



**Enhance Quality data access
with Privacy, Safety, & Trust**



**Consolidated Data platform – at
all level of Governance**



**Data Discoverability and
Research ecosystem**

Data Standardization



**Pre-condition to enable
implementation of AI**



**Support cross-verification and
training for AI**



**ISO-PC -295 which is being
adopted by various countries**

Auditing Responsible AI



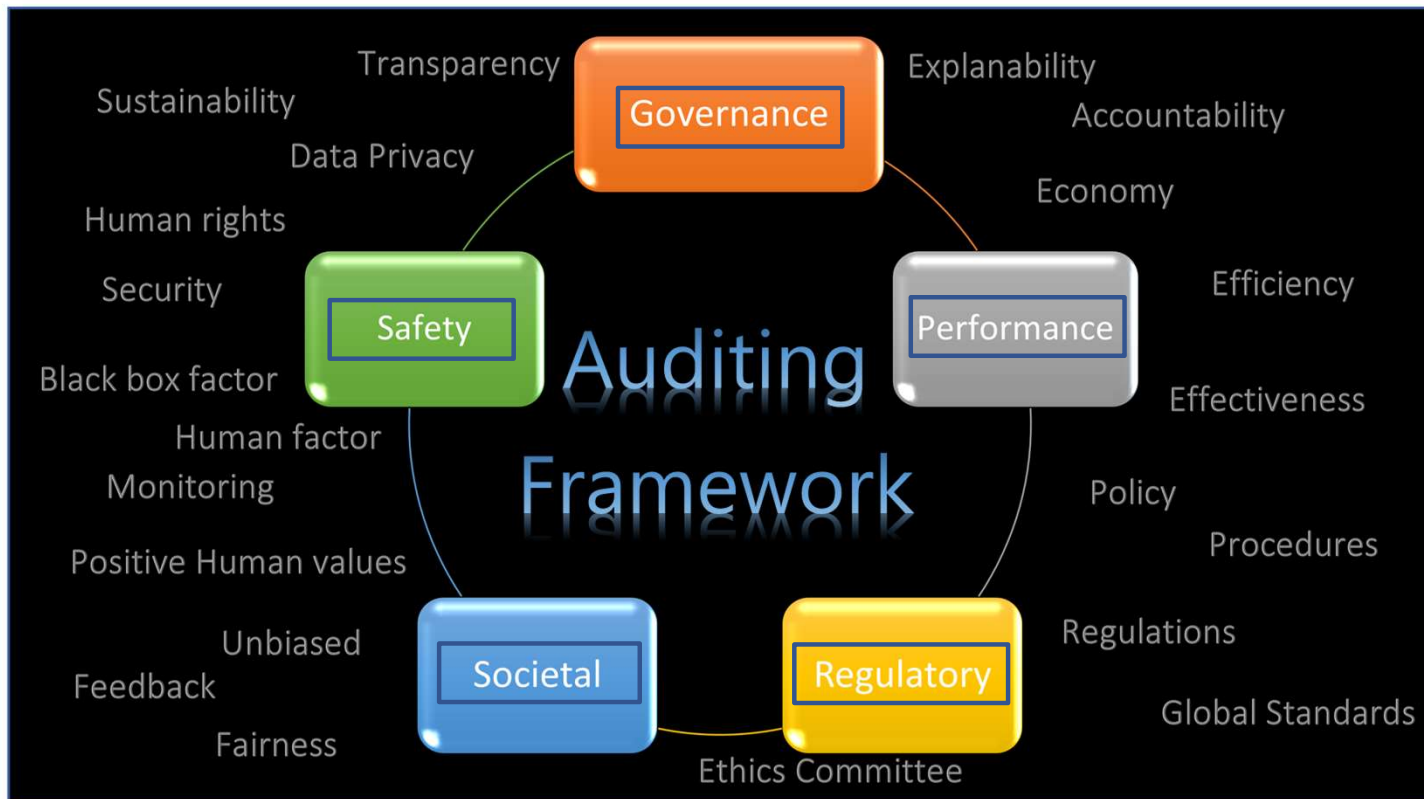
- ✓ Analysing AI associated risks and impacts
- ✓ Evaluating the performance of AI system
- ✓ Ensuring Legal and Regulatory compliance of AI System
- ✓ Promoting Transparency, Privacy, Security, and Accountability
- ✓ Internal capacity building of auditors in AI

ADOPTING AI IN AUDIT

WILL PREPARE

AUDITING OF AI

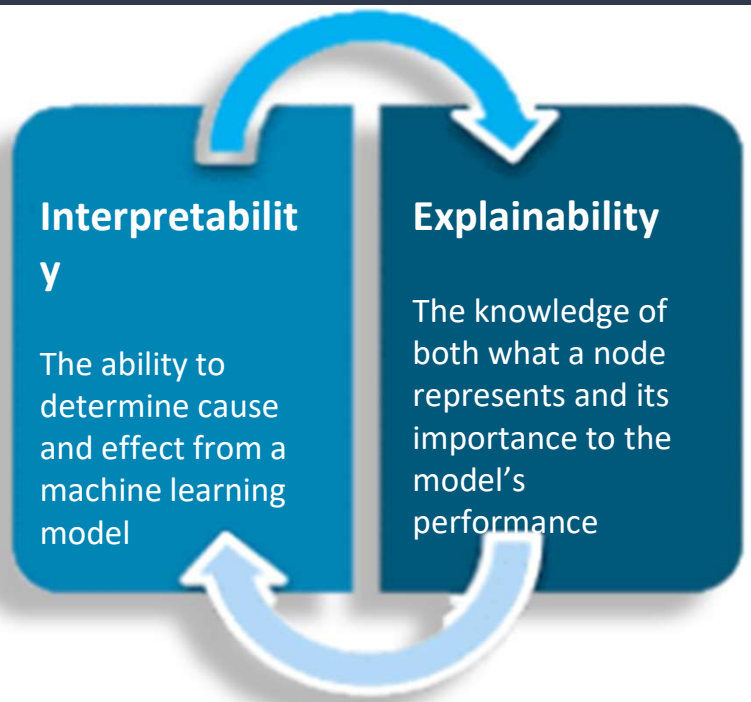
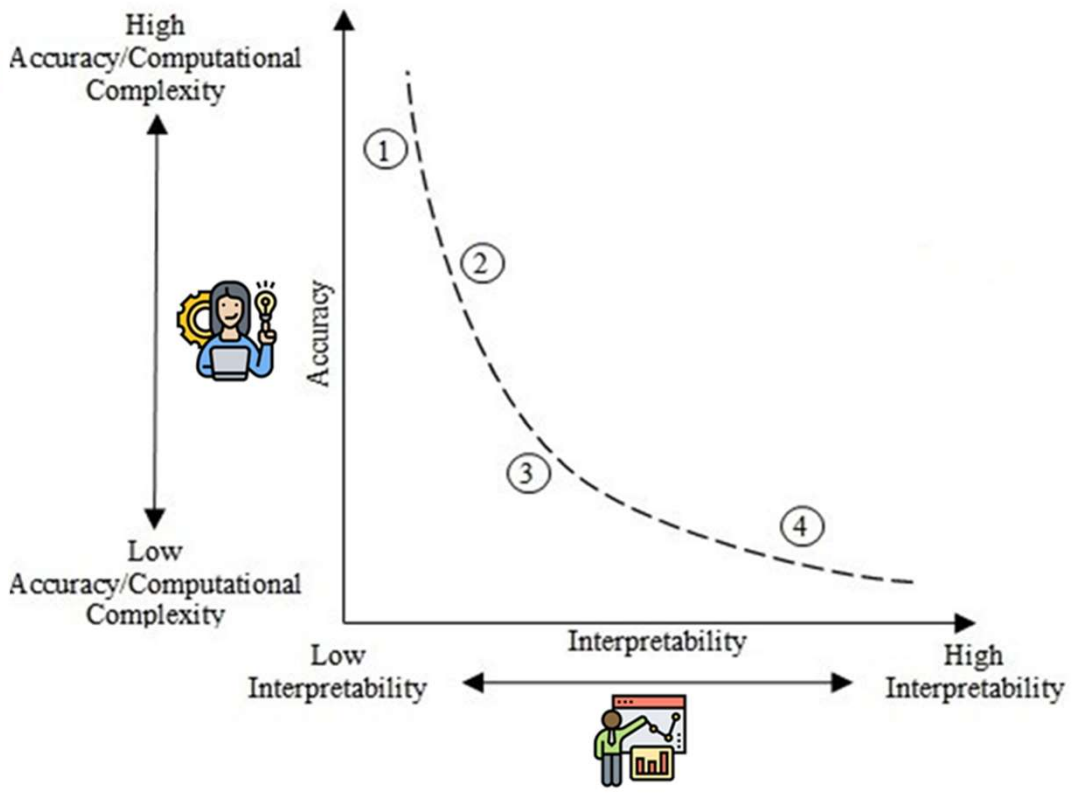
Framework for Auditing Responsible AI



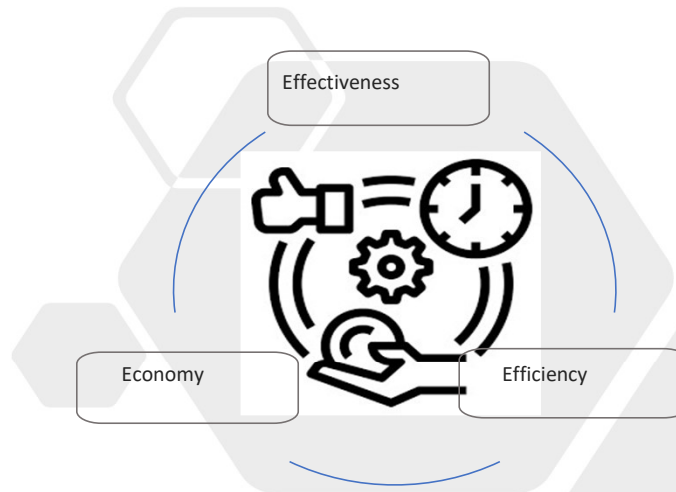
Auditing Responsible AI (GOVERNANCE)



Auditing Responsible AI (ACCURACY vs INTERPRETABILITY)



Auditing Responsible AI (PERFORMANCE)



Monitoring



Auditing Responsible AI (REGULATORY)



- **Policies, Procedures and Regulations** guide the design, development and use of AI systems.



- **Global standards** will serve as the compass for guiding the deployment of AI.



- **Ethics Committee** can overlook the internal oversight of the development and deployment of AI solutions.

Auditing Responsible AI (SAFETY)



Adopting AI in Audit



Adopting AI capabilities in Audit

- Opportunities and Risks
- Mapping Audit processes and Tasks
- Use of AI in Big Data Analytics
- Exploring Tools for AI
- Capacity Building Programme

AI Strategy for SAI : Way Forward

Maturity Model for implementation of AI in Audit



Case Study - AI in Audit

Detecting non-inclusion of Beneficiaries in Scholarship Scheme

- The National Scholarship scheme with limited seats are provided to students of minority communities.
- Statistical Model was developed using Bayesian algorithm to detect % of eligibility.
- The deviations above a specific threshold showed **ineligible beneficiaries**.
- These ineligible beneficiaries resulted in non-inclusion of **eligible beneficiaries**.

Why I have been not selected ?



Ineligible



Way Forward - Roadmap



- ✓ SAI20 Cooperation & Collaboration
- ✓ Auditing Framework
- ✓ Capacity building





Thank you
for your time