AI4 WASTE

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TOOLBOX

AI ACT

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AI ACT

The **AI Act** refers to a legislative proposal introduced by the **European Union** (**EU**) to create a regulatory framework for **Artificial Intelligence** (**AI**) technologies. Officially titled the Artificial Intelligence Act, it aims to ensure that AI systems used in the EU are safe, respect fundamental rights, and promote trustworthy AI development. The AI Act is part of the EU's broader effort to regulate digital technologies and maintain ethical standards while fostering innovation.

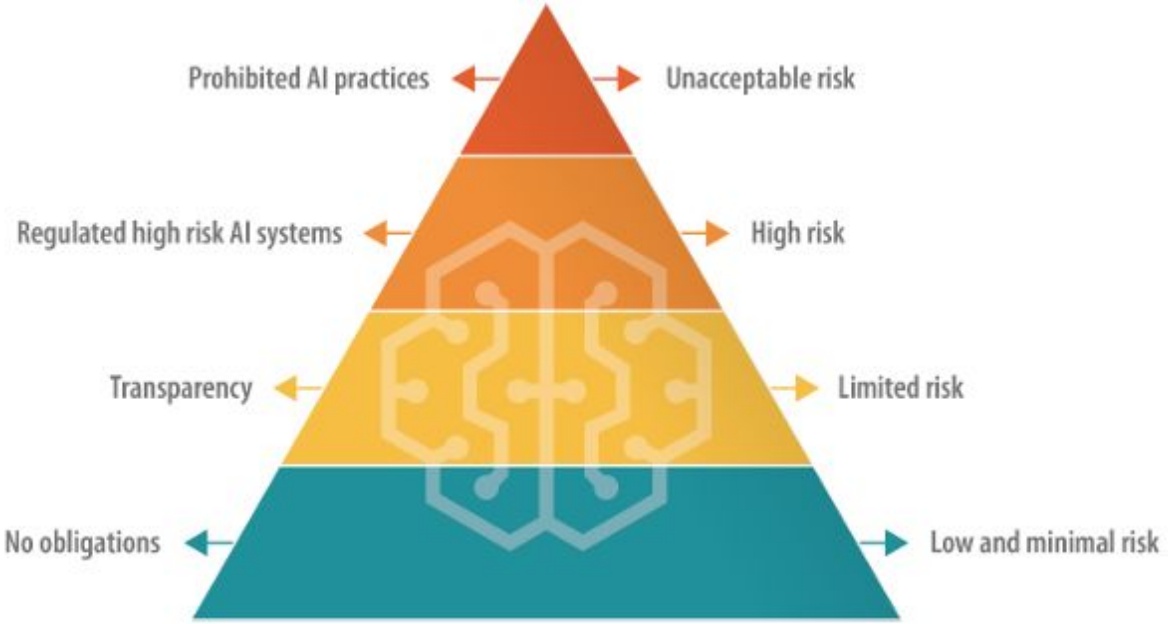
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AI ACT-Risks

AI act follows a ‘risk-based’ approach

- the higher the risk to cause harm to society, the stricter the rules
- It is the first of its kind in the world and can set a global standard for AI regulation.



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AI ACT - Unacceptable Risk (Prohibited AI Systems)

- Subliminal, Manipulative, or Deceptive Techniques: AI systems that distort behavior and impair informed decision-making.
- Exploiting Vulnerabilities: AI systems that exploit age, disability, or socio-economic circumstances
- Biometric categorisation systems: inferring sensitive attributes (race, political opinions, trade union membership, religious or philosophical beliefs, sex life, or sexual orientation)
- Social scoring: evaluating or classifying individuals or groups based on social behaviour or personal traits, causing detrimental or unfavourable treatment of those people

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AI ACT - High-Risk AI Systems Compliance

- Establish a risk management system throughout the high risk AI system's lifecycle;
- Conduct data governance, ensuring that training, validation and testing datasets are relevant, sufficiently representative and, to the best extent possible, free of errors and complete according to the intended purpose
- Draw up technical documentation to demonstrate compliance and provide authorities with the information to assess that compliance
- Design their high risk AI system for record-keeping to enable it to automatically record events relevant for identifying national level risks and substantial modifications throughout the system's lifecycle

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AI ACT - High-Risk AI Systems Compliance

- Provide instructions for use to downstream deployers to enable the latter's compliance
- Design their high risk AI system to allow deployers to implement human oversight
- Design their high risk AI system to achieve appropriate levels of accuracy, robustness, and cybersecurity
- Establish a quality management system to ensure compliance

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AI ACT - TIMELINE

- **6 months:**
  - Prohibitions on AI systems with unacceptable risk take effect
- **12 months:**
  - Member State competent authorities are appointed.
  - GPAI rules apply
- **24 months:**
  - Obligations apply to high-risk AI systems
  - which includes AI systems in biometrics, critical infrastructure, education, employment, access to essential public services, law enforcement, immigration and administration of justice now apply
  - Member states to have implemented rules on penalties.

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AI ACT - Fines for violation

- Banned AI Applications: Violations related to prohibited uses of AI can lead to fines of up to €35 million or 7% of the company's global turnover
- Other Infractions: For violations of other provisions within the AI Act, the fines can be up to €15 million or 3% of the company's global turnover

Noncompliance with the AI Act may result in

- reputational damage
- severe loss of trust and credibility,
- negative media coverage,
- customer loss, partnerships, investment opportunities, and boycott calls

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Ensuring Fairness in AI

Next Steps

After this presentation, we recommend exploring "Fairness in AI" to understand the challenges and solutions in creating equitable AI systems.

This will include:

- Defining fairness and its importance in AI.
- Understanding sources of bias in AI models.
- Case studies of bias in AI and lessons learned.

Why It’s Important

Addressing fairness and bias in AI is essential to ensure systems are inclusive, ethical, and beneficial to all users.

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