

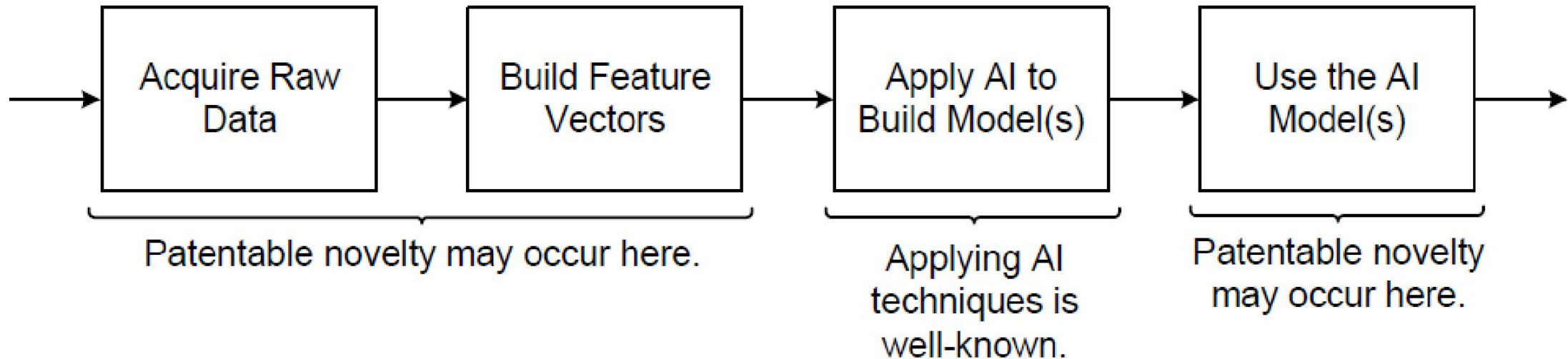
Duty of Disclosure 35 U.S.C. § 112

(a) IN GENERAL.—The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same, and shall set forth the best mode contemplated by the inventor or joint inventor of carrying out the invention.

Two Disclosure Scenarios

- 1. AI is part of the “invention.”**
- 2. AI is an “inventor.”**

Inventions That Use AI – Simplified Framework



What if AI is an inventor?

- 1. What does § 112 say?**
- 2. What does the patent drafting budget allow?**
- 3. For applications with human-only inventors, do you currently include disclosure on a feature-by-feature basis of who invented it?**
- 4. The risk of too much disclosure (e.g., hybrid inventorship).**



Questions

- **What should one disclose?**
 - **What is “publication”?**
 - **Is AI’s own knowledge material art?**

Image Courtesy of Bing Image Creator. Prompt: ““AI invention and its future”

Fun Chat with GPT-3.5

Is content generated by AI considered publication?



You

now the government requires business report their use of private consumer data for automated decision making, is there a way to automate this reporting process



ChatGPT

Certainly, automating the reporting process for the use of private consumer data in automated decision-making can streamline compliance with government regulations.

Here are steps you can consider:

1. **Data Inventory and Classification:**

- Identify and classify the types of consumer data your business uses in automated decision-making processes.

2. **Data Mapping:**

- Create a data flow diagram to map the journey of consumer data through your systems.

3. **Define Reporting Metrics:**

- Clearly define the metrics required by the government for reporting. This may include the types of data used, purposes of automated decision-making, and the algorithms employed.

4. **Implement Data Logging:**

- Integrate data logging mechanisms within your automated decision-making systems to record relevant information. This may include timestamps, data types, and algorithmic decisions.

5. **Automation Script:**

- Develop a script or program that periodically collects the required data from your systems. This script should generate a comprehensive report based on the predefined reporting metrics.

6. **Data Encryption and Security:**

- Ensure that the automated reporting system is secure and compliant with data protection regulations. Implement encryption and access controls to protect sensitive information.

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Is AI-generated content considered as “material art”?



You

are you aware of the paper published by Google on attention mechanism? Is that the foundation of the Transformer structure?



ChatGPT

Yes, the attention mechanism is a key component in the development of the Transformer model, and the concept was introduced in the paper titled "Attention is All You Need" by Vaswani et al., published in 2017. The Transformer architecture has since become a fundamental building block for various natural language processing (NLP) and machine learning tasks.

The attention mechanism is a mechanism that allows the model to focus on different parts of the input sequence when making predictions, rather than processing the entire sequence at once. This attention mechanism is crucial for handling sequential data efficiently.

In the context of the Transformer architecture, attention is used to weight different words in a sequence differently, allowing the model to attend to relevant words while making predictions. This self-attention mechanism enables the model to capture dependencies regardless of the distance between words in a sequence, making it particularly effective for tasks like language translation and other sequence-to-sequence tasks.

The Transformer architecture, with its self-attention mechanism, has significantly contributed to the success of many natural language processing models, including OpenAI's GPT (Generative Pre-trained Transformer) series and BERT (Bidirectional Encoder Representations from Transformers), developed by Google. These models have achieved state-of-the-art performance on various NLP benchmarks and tasks.