**Types of knowledge in AI**

**Depending on the type of functionality, the knowledge in AI is categorized as:**  
  
**1. Declarative knowledge**

* The knowledge which is based on concepts, facts and objects, is termed as 'Declarative Knowledge'.
* It provides all the necessary information about the problem in terms of  simple statements, either true or false.

**2. Procedural knowledge**

* Procedural knowledge derives the information on the basis of rules, strategies, agendas and procedure.
* It describes how a problem can be solved.
* Procedural knowledge directs the steps on how to perform something.  
  **For example:** Computer program.

**3. Heuristic knowledge**

* Heuristic knowledge is based on thumb rule.
* It provides the information based on a thumb rule, which is useful in guiding the reasoning process.
* In this type, the knowledge representation is based on the strategies to solve the problems through the experience of past problems, compiled by an expert. Hence, it is also known as **Shallow knowledge.**

**4. Meta-knowledge**

* This type gives an idea about the other types of knowledge that are suitable for solving problem.
* Meta-knowledge is helpful in enhancing the efficiency of problem solving through proper reasoning process.

**5. Structural knowledge**

* Structural knowledge is associated with the information based on rules, sets, concepts and relationships.
* It provides the information necessary for developing the knowledge structures and overall **mental model** of the problem.