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## TASK

- What is the Difference between DSS, Artificial Intelligence, Expert System? Then Give an example!
- In the decision-making process-Design Phase-modeling stage. What is the difference between qualitative and quantitative forms?
- 3. Look for articles/papers related to decision support systems. Summarize the article with points: Problem to be solved, alternatives, criteria, solutions

#### **ANSWER**

## 1. Difference Between DSS,AI,Expert System

DSS	$\mathbf{AI}$	<b>Expert System</b>	
Facilitate Making Decision	Use Method based on intelligent behavior of humans to solve problem	Automating Decision When making	
<b>Decision Unstructured</b>	<b>Decision Structured</b>	<b>Decision Structured</b>	
Gain Knowledge From	Gain Knowledge from	Inject Knowloadge to	
Computer System	human behavior	Computer System	
Limited Capacity	Limited Capacity	Full Capacity	
Data Manipulation		Data Manipulation	
numeric		Symbolic	
<b>Characteristic Problem</b>	Characteristic Problem is	Limited and Specialised	
is complex and broad	complex		

https://www.geeksforgeeks.org/difference-between-ai-and-expert-system/?ref=rp

https://www.geeksforgeeks.org/difference-between-dss-and-expert-system/

## **Example Expert System**

- MYCIN: It was based on backward chaining and could identify various bacteria that could cause acute infections. It could also recommend drugs based on the patient's weight. It is one of the best Expert System Example.
- **DENDRAL:** Expert system used for chemical analysis to predict molecular structure.
- **PXDES:** An Example of Expert System used to predict the degree and type of lung cancer
- CaDet: One of the best Expert System Example that can identify cancer at early stages

## **Example DDS System**

- GPS Route Planning
- Employee shifts

## **Example AI**

• Users search frequently

## 2. Difference Between Qualitative and Quantitative Form

Qualitative	Quantitative	
Focus on testing theory and hyphothesis	Focus on exploring idea	
Analyzed by math, statistical	Analyzed by summarizing,	
analysis	categorizing	
Expressed in Number , graphs , tables	Expressed in words	

https://www.scribbr.com/methodology/qualitative-quantitative-research

## 3. Why Need Vaccine

## Why We Need Vaccine

**Problem Solved :** The COVID-19 situation in the world has paralyzed health facilitation, the vaccine itself works to provide antibodies to the body so that it can fight the virus

**Alternative :** By giving vaccines can provide natural antibodies to the body so that hospitals do not collapse

**Criteria:** the criteria that must be vaccinated are at least > 5 years and the main priority is the elderly

**Solutions :** give antibodies to the body while waiting for the covid drug to be available