

# Chapter – II

## Artificial Intelligence in Daily Life

**A. Select the correct answer.**

1. Predictive search is the feature of which of the following?
 

a. Chatbot <input type="checkbox"/>	b. Digital assistant <input type="checkbox"/>
c. Search engine <input checked="" type="checkbox"/>	d. Database <input type="checkbox"/>
2. Product recommendations during online shopping is based on which of the following?
 

a. Our bank balance <input type="checkbox"/>	b. Our profile picture <input type="checkbox"/>
c. Our hobbies <input type="checkbox"/>	d. Our buying habits <input checked="" type="checkbox"/>
3. Blocking a bank account is a response to which of the following?
 

a. Zero balance in bank account <input type="checkbox"/>	
b. Fraudulent transaction <input checked="" type="checkbox"/>	
c. Payment of credit cards defaulted <input type="checkbox"/>	
d. No login in account for long time <input type="checkbox"/>	
4. Identifying face by its features is an example of which of the following?
 

a. Biometrics <input checked="" type="checkbox"/>	b. Predictive search <input type="checkbox"/>
c. Digital fingerprinting <input type="checkbox"/>	d. Classification <input type="checkbox"/>
5. How we feel and think about a product is called our \_\_\_\_\_.
 

a. Sentiment <input checked="" type="checkbox"/>	b. Nature <input type="checkbox"/>
c. Experience <input type="checkbox"/>	d. Feedback <input type="checkbox"/>

**B. Match the column A with column B.**

- | A                         | B   |
|---------------------------|---|
| 1. Predictive search      | a. Identify a face in a video clip.                     |
| 2. Fraud detection        | b. Our buying habits and preferences.                   |
| 3. Product recommendation | c. Words recommended based on the previous searches.    |
| 4. Sentiment analysis     | d. Transfer of a huge amount from one account to other. |
| 5. Object detection       | e. Our online interactions about a product or service.  |

Ans:

1. Predictive search	c. Words recommended based on the previous searches.
2. Fraud detection	d. Transfer of a huge amount from one account to other.
3. Product recommendation	b. Our buying habits and preferences.
4. Sentiment analysis	e. Our online interactions about a product or service.
5. Object detection	a. Identify a face in a video clip.

**C. Fill in the blanks.**

Fraud, Chatbot, Digital assistant, NLP, Sentiment analysis

1. Customers can find out about services and products of a company by using its Chatbot.
2. Digital Assistant can understand speech and execute routine tasks.
3. Identifying and classifying documents is an application of NLP.
4. Sentiment Analysis helps in assessing the popularity of a product or celebrity.
5. Repeated attempts of login in a bank account could be an attempt of Fraud.

**D. Mark the following statements as True or False.**

1. Speech recognition means what has been spoken.
2. Voice recognition means what has been spoken.
3. Chatbots are applications of NLP.
4. Fingerprint recognition is a feature of fraud detection.
5. The features of AI can be used to serve humanity.

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**E. Answer the following questions.**

1. How does search engine determine what words to recommend while typing the search text?

Ans: Search engine determine what words to recommend on the basis of our previous searches and the data collected about us from our online activities using AI Algorithms.

**2. Mentions ways through which AI algorithm detects online fraudulent transactions.**

Ans: AI algorithms on financial websites such as banks and loan companies, are programmed to look for unusual trends like huge amount, number and speed of transactions in an account at a time, repeated attempts of login in an account etc. to detect online fraudulent transactions.

**3. How does an online map application help us?**

Ans: Online map applications are incredibly helpful for various tasks like navigation, location search, and route planning, offering real-time traffic updates and street-level views. They also provide local information about businesses and points of interest, making it easier to explore new areas and plan trips.

**4. What is sentiment analysis?**

Ans: Sentiment analysis is a technique used in natural language processing to determine the emotional tone or sentiment expressed in a piece of text, classifying it as positive, negative, or neutral.

## 5. List any 3 applications of Object detection.

Ans: Object detection has many applications, including autonomous vehicles, security and surveillance, and retail analysis.

## 6. What is NLP?

Ans: Natural Language Processing (NLP) is a field that combines computer science, artificial intelligence and language studies. It helps computers understand, process and create human language in a way that makes sense and is useful.

## 7. How is speech recognition different from voice recognition?

Ans: Speech recognition focuses on converting spoken words into text or commands, while voice recognition identifies the speaker based on their unique vocal characteristics.

In essence, speech recognition is about "what" is said, while voice recognition is about "who" is saying it.

## 8. What are digital assistants and chatbots?

Ans: Digital assistants and chatbots are both AI-powered tools that interact with users, but they differ in their scope and capabilities.

Digital assistants, like Siri or Google Assistant, handle a wider range of tasks, integrate with various devices, and maintain context across conversations.

Chatbots, on the other hand, are typically designed for specific tasks, often within a single application or platform, and may not retain context as well.