

Lesson-4

Possibilities with AI

Exercises

I. Multiple choice questions:

1. Which of the following is not applicable for smart email replies?
Ans. b) Time consuming
2. Google AI powered eye-care technologies at Aravind and Sankara eye hospitals, Chennai, Tamil Nadu is working for/as:
Ans. d) Diagnosing diabetic retinopathy
3. Sigtuple organization:
Ans. b) Pathology
4. Which one of the following is not a soft skill?
Ans. c) Data analysis
5. TREWS stand for:
Ans. b) Targeted Real-Time Early Warning Score

Practice questions

I. Fill in the blanks:

- a. User preferences are deduced by data analysis done over time and can be seen in social media.
- b. Artificial Intelligence algorithms are working in the background for suggesting online purchase and bookings.
- c. Smart search is a technique on web browser which is collecting user data by the AI assistance using data analysis.
- d. Research skills help to collect data and critically analyze information from different sources.
- e. Communication skills enhance your ability to accept and relay different kinds of information.
- f. Artificial enabled smart machines can listen, understand, learn and perform administrative tasks.
- g. Poster is a type of communication to present or promote something to an audience.
- h. Qure.ai are exploring medical imaging space.
- i. Tricog Health have developed cloud-connected ECG device which detect heart anomalies.

II. Match the following:

a. Soft skill	vii) Teamwork
b. Smart search on web	i) Data analysis
c. Technical skill	iv) Project management
d. Communication skill	ii) Speaking
e. Digital assistant	iii) Chatbot
f. Niramai	viii) Breast cancer detection
g. Cure skin	vi) Dermatology solutions
h. Research skill	v) Collect data and critically analyze from different sources.

III. Name any three themes for which Artificial intelligence is playing a major role.

Ans.) Three themes for which AI is playing a major role:

- National security
- Healthcare
- Transport

IV. Unscramble the following letters to form a word:

a. IKSLL- SKILL

b. ACEESHRR- RESEARCH

V. Write any three soft skills and technical skills.

Ans. Three soft skills:

- Communication skills
- Teamwork
- Leadership skills

Three technical skills:

- Data analysis
- Machine learning
- Using ICT to handle AI-enabled machines

VI. Give any two examples from your life where you have observed that AI is helping you.

Ans.) Two examples from our daily lives where AI is helping us are:

- Getting music and movie recommendations by digital assistants and chatbots on our hand-held devices.
- Parking assistance available in modern cars.

VII. Explain smart search on web with the help of an example.

Ans.) Smart search on a web browser is based on the user data collected such as location, age, and other personal preferences, which aids AI to assist the search engine in predicting what the user is looking for.

VIII. Give any two examples of AI helping in the field of education.

Ans.) Two examples of AI helping in the field of education are: -

- Smart Content- Technology that attempts to condense text books into useful tool for exam preparation.
- Intelligent Tutoring Systems- Personalized electronic tutoring customized to the learning styles and preferences of the pupil.

IX. Write the key elements needed to design a poster for job advertisement.

Ans.) The key elements needed to design a poster for job advertisement are as follows: -

- Title of the advertisement
- Short description about the company
- Number of vacancies and the post should be clearly mentioned
- Age and gender for the suitable post
- Location
- Remuneration
- Qualification: educational, technical and professional experience
- Mode of communication
- Contact details

X. Write the functionality of the following organizations regarding AI:

a. Google AI: - Google's AI has been using machine learning algorithms for diagnosing diabetic retinopathy. The same retinal scans are now being used for predicting the risks of having adverse cardiovascular events. They are bringing medical care to areas in interior India, where even the doctors are scarce.

b. Narayana Health City: - They have set up an in-house vertical data analytics Centre using Microsoft AI for providing solutions from staff forecasting to enhancing prediction of diagnostic lab operations from volumes of patient datasets.