Lesson-4:Possibilities with AI

A. 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

B. Fill in the blanks:

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

C. Match the following:

1. Soft skill	vii) Teamwork
2. Smart search on web	i) Data analysis
3. Technical skill	iv) Project management
4. Communication skill	ii) Speaking
5. Digital assistant	iii) Chatbot
6. Niramai	viii) Breast cancer detection

7. Cure skin	vi) Dermatology solutions
8. Research skill	v) Collect data and critically analyze from different sources.

D. Answer the following questions.

1. 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

2. Unscramble the following letters to form a word:
   a. IKSLL- SKILL
   b. ACEESHRR- RESEARCH

3. 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

4. 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:
   A. Getting music and movie recommendations by digital assistants and chatbots on our hand-held devices.
   B. Parking assistance available in modern cars.

5. 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.

6. 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.

7. 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

8. Write the functionality of the following organizations regarding AI:
   a. <u>Google AI</u>: - 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. <u>Narayana Health City</u>: - 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.

WORKSHEET

A. State whether the following statements are True or False.

1. Smart e-mail replies available assist in quick communication. **True**
2. The fictional stories of the past are now becoming a reality of your daily life. **True**
3. Research skills enhance your ability to accept and relay different kinds of information. **False**
4. You can communicate using multiple methods like the internet, articles, studies, surveys, interviews, books, journals, experiments, and personal experiences. **False**
5. Google's AI has been using machine learning algorithms for diagnosing diabetic retinopathy. **True**
6. Medical malpractice and product liability is an example of cyber security. **False**
7. Title of the advertisement is a key element of poster making. **True**
8. User preferences are deduced by data analysis which is done over time and that can be seen in social media. **True**

B. Fill in the blanks.

1. **Communication** skills enhance your ability to accept and relay different kinds of information.
2. **Research skills** help to collect data and critically analyze information from different sources.
3. **AI** plays a very active role in your daily lives by digital assistants and chatbots on your hand-held devices.

4. AI algorithms are working in the background all the time for suggesting **online purchases** and bookings.
5. **Research** is a skill which is used to get new ideas based and help comprehend the topic better.
6. **Technical** skills are the attributes and knowledge required to perform a particular task.
7. **Soft** skill are the attributes that are used to effectively interact with one another.

C. Answer the following questions.

1. Define Poster.

Ans- A poster is a large notice or picture that you stick on a wall or board, often in order to advertise something. Poster is a type of communication to present or promote something to the audience.

2. Explain communication skills.

Ans- Communication skills enhance your ability to accept and relay different kinds of information. These skills constructively involve observing, empathizing, adapting, listening and speaking to build verbal, visual and written communication.

3. Explain Google Smart.

Ans. Google Smart lock lets you to get right down to work (or play) without needing to remember passwords and security codes. It Works with your android devices, Chrome books, Chrome browser and select apps.

Multiple Choice questions.

1. Which bank has developed an AI-based chatbot called EVA?
Ans. HDFC
2. The first AI program was run in the
Ans. England
3. AI helps to prevent _____ damage.
Ans. Future
4. Which allows you to perform searches the way you would in a search engine?
Ans. Smart Search
5. Company like _____ are using AI to study land-use patterns with terrain maps.
Ans. Microsoft
6. _____ is/are soft skills.
Ans. Leadership skills, Team Work and Communication Skills
7. Interpersonal skill is an example of
Ans. Soft skill
8. AI is an ever-growing hub of technologies that allow _____ to broaden human capabilities and to achieve more and accurate results in less time.
Ans. Smart Machine