

BCM SCHOOL BASANT AVENUE DUGRI ROAD LUDHIANA

ASSIGNMENT 2

SUBJECT: ARTIFICIAL INTELLIGENCE

CLASS X

1. What was one of the earliest applications of data science?
 - a. Genetics & Genomics
 - b. Internet Search
 - c. Fraud and Risk Detection
 - d. Targeted Advertising

2. Which industry uses data science to predict flight delays and drive customer loyalty programs?
 - a. Genetics & Genomics
 - b. Internet Search
 - c. Fraud and Risk Detection
 - d. Airline Route Planning

3. Which search engine(s) make use of data science algorithms to deliver search results?
 - a. Google
 - b. Yahoo
 - c. Bing
 - d. All of the above

4. What is the purpose of website recommendations?
 - a. To improve user experience
 - b. To promote products
 - c. To suggest similar products
 - d. All of the above

5. Which field does data science enable an advanced level of treatment personalization through research in?
 - a. Genetics & Genomics
 - b. Internet Search
 - c. Fraud and Risk Detection
 - d. Airline Route Planning

6. Which industry uses data science algorithms to decide on digital advertising placements?
 - a. Genetics & Genomics

- b. Internet Search
- c. Targeted Advertising
- d. Airline Route Planning

7. What is the main goal of data science applications in genetics and genomics?

- a. To understand the impact of DNA on health
- b. To find individual biological connections
- c. To analyze reactions to drugs and diseases
- d. All of the above

8. Which industry uses data science to analyze customer profiling and past expenditures?

- a. Genetics & Genomics
- b. Fraud and Risk Detection
- c. Internet Search
- d. Airline Route Planning

9. Which companies use data science to improve user experience through product recommendations?

- a. Amazon, Twitter, Google Play, Netflix, LinkedIn, IMDB
- b. Yahoo, Bing, Ask, AOL
- c. All of the above
- d. None of the above

10. What is the main purpose of data science?

- a. To analyze data and make machines intelligent
- b. To collect and store data for future use
- c. To create new fields of study in science
- d. To predict future trends based on historical data

11. In which industry were the earliest applications of data science seen?

- a. Technology
- b. Healthcare
- c. Finance
- d. Agriculture

12. The finance industry had a lot of data and faced challenges such as losses and complications. They brought in data science practices to help solve their problems.

How did data science help banking companies in managing risk?

- a. By collecting customer profiles and past expenditures
- b. By creating new banking products
- c. By providing loans to customers with high purchasing power

d. By reducing bad debts and losses

13. How does data science contribute to disease research?

- a. It provides a deeper understanding of genetic issues in drug response.
- b. It allows integration of different kinds of data with genomic data.
- c. It helps in personalizing treatments based on individual genetics.
- d. All of the above.

14. Which search engine(s) make use of data science algorithms?

- a. Google only
- b. Yahoo, Bing, Ask, AOL, and Google
- c. Yahoo and Bing only
- d. AOL, Ask, and Google only

15. How does targeted advertising differ from traditional advertising?

- a. It uses data science algorithms to deliver personalized ads.
- b. It relies on user's past behavior to determine ad placement.
- c. It has a higher Call-Through Rate (CTR).
- d. All of the above.

16. Expand: Pixel, JPEG, PNG, BMP

17. List any 3 real life applications of computer vision