

1) Research the different job roles under Data Science?

Ans..

- Data Scientist.
- Data Analyst.
- Business Analyst.
- Machine Learning Engineer.
- Database Administrator.
- Data Engineer.
- Data Architect.
- Statistician.

2) Research and list at least 20 application of Data Science.

Ans..

1. Amazon go.
2. Delivery logistics.
3. Miscellaneous.
4. Self-Driving Cars.
5. Robots.
6. Fraud and Risk Detection.
7. Healthcare.
8. Internet Search.
9. Targeted Advertising.
10. Website Recommendations.
11. Advanced Image Recognition.
12. Speech Recognition.
13. Airline Route Planning.
14. Advertisements (Targeted Advertising and re-targeting).
15. Gaming Application.
16. Price Comparison Websites.
17. Genomics and Genetics.
18. Virtual Assistance.
19. Human Resources.
20. Marketing.

3) Give 5 example of each data types apart from what is discussed in the class - Discrete, Continuous, Nominal, Ordinal.

Ans..

➤ **Discrete data type.**

- Shoe size.
- Railcars on Train.
- The number of children's.
- The number of sixes in 1st inning.
- The number of parts damaged during transportation.

➤ **Continuous data type.**

- The speed of car\bike.
- The amount of time required to complete a project.
- No. of minutes to board the plane.
- Distance between mile stones on a road.
- The amount of time takes to sell a product.
- Blood Pressure.

➤ **Nominal data type.**

- Number assigned to a runner in a race.
- Zip code.
- Marital status.
- Dog Breed.
- Employee id.No.

➤ **Ordinal data type.**

- Rank order of runner in a race.
- Product rating (Good, okay, Bad) or (in a scale of five stars).
- Economic status(Low, Medium, High).
- Customer level of satisfaction. (Very satisfied, Satisfied, Neutral dissatisfied, Very dissatisfied).
- The first, second & third person in a competition.