Q.1 Briefly describe the steps involved in a typical data science process in your own words?

Ans. The steps involved in a typical data process are as follows.

1. Data collection and storage.
2. Exploring and analyzing.
3. Model development and prediction.
4. Communication and visualization.
5. Deployment and maintenance.

Q.2 Citing relevant examples classify the data as qualitative and quantitative types?

Ans. Qualitative data types are those which cannot be measured or counted and it is in the

form of text and is categorical. For ex; Describing shape of certain objects and describing vegetables whether fresh or ripen.

Quantitative data types are those which can be counted or measured and in the form of

Numbers. Ex; No of students in a class room and no of journals received in a year by a person.

Q3. Given below is a visual of a classical Ml model identify the type of model and describe what it is

Intended to achieve?

ANS. There are two classes versicolor and setosa with petals. They are linearly separable from each

Other. I am not aware of this topic as I have missed here and I will go through recorded video.

Q4. Big data comes with its own set of challenges. Highlight and discuss two biggest challenges of

Modern big data?

Ans. 1) It is a little bit hard to manage large volumes of data as it comes from different sources and

Platforms.

2) Sometimes it’s a challenge working with big data because of not knowing how to implement

relevant tools.

Q5. 80% of data scientists valuable time is spent simply finding cleansing and organizing data leaving

Only 20% to actually perform analysis. Justify above statement in your own words?

Ans. Data scientists spend 80% of their time cleaning data rather than creating insights. Data scientists

Only spend 20% of their time creating insights the rest wrangling data. It is frequently used to

Highlight the need to address a number of issues around data quality standards and access.