1. What is the curse of dimensionality? Explain how it can affect the performance of machine learning models. What techniques can be used to address this problem?

2. What is normalisation in database design? Why is it important? Give an example of a situation where normalisation might be necessary.

3. How do we run a python program in linux as a ‘systemctl’ service? Give us certain examples of such cases

4. With the dataset provided above, come up with faster and efficient techniques for fetching and processing the data from MongoDB to your local machine. Give us code examples what you’ve done and why’s the query faster (Code commenting)

5. Create a cron job of a python file that needs to be run for every 15th of the month at 3:45PM GMT. It should execute from the startup and store the output in a log file. File name: testing.py in folder: /home/ubuntu/NL/test Add the code snippet to the document as well.

Ans 5)

45 15 15 \* \* /home/ubuntu/NL/test/testing.py >> /home/ubuntu/NL/test/testing.log 2>&1