1.Explain how you can implement ML in a real world application.

Ans-

1.Define the Problem - Understand what specific task or question you want a computer to learn or solve. For example, predicting if an email is spam or not.

2.Collect Data - Gather information or examples related to the problem. In the email example, you'd collect a set of emails labeled as either spam or not spam.

3. Clean and Prepare Data - Make sure the data is in good shape. Remove any irrelevant or messy parts, like missing information or errors.

4. Create Features - Decide what aspects of the data are relevant for the problem. For emails, features might include the number of words or the presence of specific keywords.

5. Choose a Model- Pick a method (model) for the computer to learn from the data. It could be a simple rule-based system or a more complex algorithm like a decision tree.

6. Train the Model - Train the computer by showing it examples from the data. The computer learns patterns and relationships between features and outcomes (spam or not spam).

7. Evaluate the Model - Test how well the computer has learned. Use a separate set of examples (data) that it hasn’t seen before to see if it can make accurate predictions.

8. Iterate and Improve- If the computer doesn't perform well, tweak the model or give it more examples to learn from. This process is called "training" the model.

9 . Deploy the Model - Once you're satisfied with how well the computer can make predictions, you can use it to automatically classify new, unseen emails as spam or not spam.