



Daily Machine Learning Interview Questions





6. What Are the Three Stages of Building a Model in Machine Learning?





The three stages of building a machine learning model are:

- **Model Building**

Choose a suitable algorithm for the model and train it according to the requirement

- **Model Testing**

Check the accuracy of the model through the test data.

- **Applying the Model**

Make the required changes after testing and use the final model for real-time projects.





Here, it's important to remember that once in a while, the model needs to be checked to make sure it's working correctly. It should be modified to make sure that it is up-to-date.





7. What Are the Applications of Supervised Machine Learning in Modern Businesses?





Applications of supervised machine learning include:

- **Email Spam Detection**

Here we train the model using historical data that consists of emails categorized as spam or not spam. This labeled information is fed as input to the model.





Healthcare Diagnosis

By providing images regarding a disease, a model can be trained to detect if a person is suffering from the disease or not.





8. What is Semi-supervised Machine Learning?





Supervised learning uses data that is completely labeled, whereas unsupervised learning uses no training data.

In the case of semi-supervised learning, the training data contains a small amount of labeled data and a large amount of unlabeled data.





9. What Are Unsupervised Machine Learning Techniques?





There are two techniques
used in unsupervised
learning:

- Clustering
- Association.



Clustering

Clustering problems involve data to be divided into subset. These subsets, also called clusters, contain data that are similar to each other.

Different clusters reveal different details about the objects, unlike classification or regression.

Association

In an association problem, we identify patterns of associations between different variables or items.

For example, an e-commerce website can suggest other items for you to buy, based on the prior purchases that you have made, spending habits, items in your wishlist, other customers' purchase habits, and so on.



10. What is the Difference Between Supervised and Unsupervised Machine Learning?



Supervised learning - This model learns from the labeled data and makes a future prediction as output

Unsupervised learning - This model uses unlabeled input data and allows the algorithm to act on that information without guidance.



Thank You

