

- ❖ Tell me about yourself.
- ❖ Tell me about the project that you did in the machine learning and data science field.

#### **Machine Learning Questions:**

- ❖ What is the difference between a classification problem and a regression problem?
- ❖ Which function is used in logistic regression?
- ❖ Can we use the tanh function instead of the sigmoid function in logistic regression?
- ❖ What is softmax?
- ❖ Can we use softmax in logistic regression?
- ❖ What happens if we use the tanh or softmax function in logistic regression?
- ❖ What are SVMs?
- ❖ What is a decision tree?
- ❖ What is the difference between overfitting and underfitting?
- ❖ What is regularization?
- ❖ How to get rid of overfitting and underfitting problems?

#### **Problem Solving Questions:**

- ❖ Swap two numbers without using a third variable.
- ❖ How can we change the string 'My name is Tayyub' to 'Tayyub is my name' in Python?
- ❖ What is a linked list?
- ❖ What are the types of linked lists?
- ❖ How can we find the middle element in a linked list by traversing it only once?
- ❖ Suppose you have 15 candies, and there is a deal: 3 wrappers = 1 candy (Don't remember the complete question)?

#### **Deep Learning:**

- ❖ Why do we need deep learning? Can't we solve all problems with machine learning?
- ❖ What is CNN?
- ❖ What is Vanishing Gradient/Exploding Gradient?
- ❖ What is gradient descent?
- ❖ What is LSTM?
- ❖ What are transformers?

- ❖ Any questions from you?