



AI/ML Interview Questions



Beginner to Advanced – 100 Qs to master your prep



Core ML Concepts & Algorithms explained simply



Overfitting, Bias-Variance & Evaluation Metrics

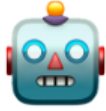


Deep Learning Basics
– NNs, CNNs, RNNs, Transformers



Perfect for learners, coders & interview prep

Save, revise & crack your next AI/ML interview! 🔥



100 AI/ML Interview Questions

| Your quick-fire guide for AI/ML interviews 🚀🎯

Beginner Level

1. What is Artificial Intelligence (AI)?
2. What is Machine Learning (ML)?
3. What is Deep Learning (DL)?
4. Difference between AI, ML, and DL?
5. What are the main types of Machine Learning?
6. What is supervised learning?
7. What is unsupervised learning?
8. What is reinforcement learning?
9. Difference between classification and regression?
10. What is a dataset?
11. What is training data vs test data?
12. What is validation data?
13. What is cross-validation?
14. What is overfitting in ML?
15. What is underfitting in ML?
16. How do you prevent overfitting?
17. What is bias-variance tradeoff?
18. What is a confusion matrix?
19. What is accuracy in ML?

- 20. What is precision and recall?
 - 21. What is the F1-score?
 - 22. What is ROC curve?
 - 23. What is AUC (Area Under Curve)?
 - 24. What is a feature in ML?
 - 25. What is feature engineering?
 - 26. What is feature scaling?
 - 27. Difference between normalization and standardization?
 - 28. What is dimensionality reduction?
 - 29. What is PCA (Principal Component Analysis)?
 - 30. What is clustering in ML?
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Intermediate Level

- 31. What is k-means clustering?
- 32. What is hierarchical clustering?
- 33. What is DBSCAN clustering?
- 34. What is logistic regression?
- 35. What is linear regression?
- 36. What is gradient descent?
- 37. What is stochastic gradient descent (SGD)?
- 38. What is cost/loss function?
- 39. Difference between MSE and MAE?
- 40. What is regularization in ML?
- 41. Difference between L1 and L2 regularization?
- 42. What is Ridge regression?
- 43. What is Lasso regression?
- 44. What is ElasticNet?
- 45. What is decision tree in ML?
- 46. What is random forest?

- 47. What is bagging in ML?
 - 48. What is boosting in ML?
 - 49. Difference between AdaBoost, Gradient Boosting, and XGBoost?
 - 50. What is LightGBM?
 - 51. What is CatBoost?
 - 52. Difference between bagging and boosting?
 - 53. What is Naive Bayes algorithm?
 - 54. What is k-Nearest Neighbors (kNN)?
 - 55. What is Support Vector Machine (SVM)?
 - 56. What is a kernel in SVM?
 - 57. What is hyperparameter tuning?
 - 58. What is grid search vs random search?
 - 59. What is cross-entropy loss?
 - 60. What is log-loss in classification?
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Advanced Level

- 61. What is deep learning?
- 62. What is an artificial neural network?
- 63. What is a perceptron?
- 64. What is a hidden layer in neural networks?
- 65. What are activation functions?
- 66. Explain ReLU activation.
- 67. Explain sigmoid activation.
- 68. Explain softmax activation.
- 69. What is forward propagation?
- 70. What is backpropagation?
- 71. What is vanishing gradient problem?
- 72. What is exploding gradient problem?
- 73. How do you prevent vanishing gradients?

- 74. What is dropout in deep learning?**
 - 75. What is batch normalization?**
 - 76. What is an epoch in training?**
 - 77. What is batch size?**
 - 78. What is learning rate in training?**
 - 79. What is an optimizer in DL?**
 - 80. Difference between SGD, Adam, RMSProp optimizers?**
 - 81. What is CNN (Convolutional Neural Network)?**
 - 82. What is pooling in CNN?**
 - 83. What is RNN (Recurrent Neural Network)?**
 - 84. What is vanishing gradient in RNNs?**
 - 85. What is LSTM (Long Short-Term Memory)?**
 - 86. What is GRU (Gated Recurrent Unit)?**
 - 87. What is attention mechanism in DL?**
 - 88. What is a Transformer model?**
 - 89. What is BERT in NLP?**
 - 90. What are embeddings in ML?**
 - 91. What is transfer learning?**
 - 92. What is fine-tuning in ML models?**
 - 93. What is model interpretability?**
 - 94. What are SHAP and LIME?**
 - 95. What is reinforcement learning in depth?**
 - 96. What is Q-learning?**
 - 97. What is policy gradient method?**
 - 98. What are Markov Decision Processes (MDPs)?**
 - 99. What is model-based vs model-free RL?**
 - 100. What are the challenges in deploying ML models to production?**
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