

machine learning

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Machine Learning Interview Questions

"To get a job in machine learning, you must have the programming and mathematical knowledge to create artificial intelligence that is capable of learning new tasks without being explicitly coded. In an interview you may be asked about your experience with pertinent coding languages such as Java and C++ as well as with writing algorithms. The interview will be comprised mainly of technical questions that test your knowledge of the fundamental concepts of machine learning such as data mining and... Read more

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questions shared by candidates

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Machine Learning Software Engineer at Facebook was asked... Jan 21, 2010

Suppose you have a matrix of numbers. How can you easily compute the sum of any rectangle (i.e. a range [row_start, row_end, col_start, col_end]) of those numbers? How would you code this?

[6 Answers](#)

- ↳ It can be done in constant time by precalculating sums of some basic rectangles (extending all the way to the border of the matrix). That precalculation times time $O(n)$ by simple dynamic programming.
- ↳ Please elaborate, which "basic rectangles"? Are you recursively dividing each rectangle into 4 smaller rectangles? Precalc time for doing that is not $O(n)$!?
- ↳ Compute the sum of the rectangles, for all i, j , bounded by (i, j) , (i, m) , (n, j) , (n, m) , where (n, m) is the size of the matrix M . Call that sum $s(i, j)$. You can calculate $s(i, j)$ by dynamic programming: $s(i, j) = M(i, j) + s(i+1, j) + s(i, j+1) - s(i+1, j+1)$. And the sum of any rectangle can be computed from $s(i, j)$.

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Computer Vision/Machine Learning Software Engineer at Gauss Surgical was asked... Jun 17, 2014

Why does one use MSE as a measure of quality. What is the scientific/mathematical reason for the same?

[2 Answers](#)

Data Scientist & Machine Learning at Amazon was asked... Oct 18, 2013

The three data structure questions are: 1. the difference between linked list and array; 2. the difference between stack and queue; 3. describe hash table.

[1 Answer](#)

Data Mining/Machine Learning Engineer Position at Adobe was asked... Dec 29, 2010

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How would you design a recommendation system (like amazon)?

[2 Answers](#)



Machine Learning Architect at Globys was asked...

Feb 26, 2011

Describe approaches to data mining of customer logs.

[1 Answer](#)



Software Engineer/Machine Learning at BRAIN CORP was asked...

Apr 17, 2015

They never decided to ask me any question.

[1 Answer](#)



Machine Learning Engineer at Walmart was asked...

Apr 2, 2018

Find all the anagrams of a String

[1 Answer](#)



Machine Learning Engineer at Pinterest was asked...

Apr 24, 2018

I was asked my understanding of the home feed system of Pinterest

[1 Answer](#)



Machine Learning Researcher at J.P. Morgan was asked...

Dec 3, 2017

Talk about your research, random forest, 2 sums, knn

[Be the first to answer this question](#)



Software Engineer - Machine Learning at LinkedIn was asked...

Feb 7, 2018

Given a random generator function that return 0 or 1 with equal probability, create another random function that will return any value between [0,6] with equal probability

[1 Answer](#)

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