

Twitter Thread by Alexey Grigorev



Alexey Grigorev

@AI_Grigor



The toughest data science interview I ever had

I got bombarded for 45 minutes with theoretical questions:

- Entropy
- KL divergence, other divergences
- Kolmogorov complexity
- Jacobian and Hessian
- Linear independence
- Determinant

Continued ■

- Eigenvalues and Eigenvectors
- SVD
- The norm of a vector
- Independent random variables
- Expectation and variance
- Central limit theorem
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- Gradient descent and SGD
- Other optimization methods
- The dimension of gradient and hessian for a neural net with 1k params
- What is SVM
- Linear vs non-linear SVM
- Quadratic optimization
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- What to do when a neural net overfits
- What is autoencoder
- How to train an RNN
- How decision trees work
- Random forest and GBM
- How to use random forest on data with 30k features
- Favorite ML algorithm - tell about it in details

That was tough!