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Any GOOD company will NOT be interested to start probing your knowledge on deep learning [nothing much theoretical to ask]

Be prepared with traditional concepts of

- 1. Bayesian min error/risk framework
- 2. Bias-Variance tradeoff [work out the math, not just story]
- 3. Naive Bayes
- 4. Gaussian Mixture models
- 5. Ensemble methods
- 6. Decision trees
- 7. Logistic regression
- 8. k-nearest neighbor
- 9. Dimensionality reduction [PCA, LDA]

Majority of times if you can't impress with traditional approaches, it is ALMOST sure you will NOT be clearing the expectation.

Even for Deep learning, have fundamental understanding of

- 1. How fully connected layers are different from conv layers
- 2. The math behind momentum, RMSProp optimizers
- 3. Math behind gradient explosion/vanishing
- 4. Why Residual Nets work as they do
- 5. Why batch normalization works

In summary keep your fundamentals strong, and just rely on empirical discussions/implementations.

Interested in discussions like these?

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