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- Video: Week Conclusion

**Lecture Notes (Optional)** 

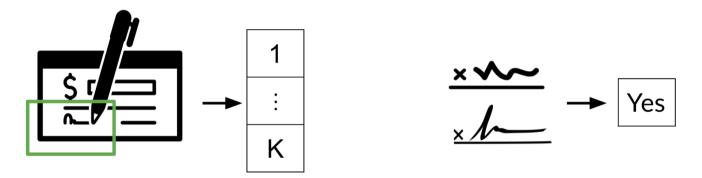
**Practice Quiz** 

**Assignment: Question Duplicates** 

> Week 3 > One Shot Learning

## One Shot Learning

Imagine you are working in a bank and you need to verify the signature of a check. You can either build a classifier with K possible signatures as an output or you can build a classifier that tells you whether two signatures are the same.



**Classification**: classifies input as 1 of K classes

One Shot Learning: measures similarity between 2 classes

Hence, we resort to one shot learning. Instead of retraining your model for every signature, you can just learn a similarity score as follows:



Learn a similarity score!

$$\cos(sig1, sig2) > \tau$$

$$\cos(sig1, sig2) \le \tau \times$$



