Week 2 - Neural network basics

- Logistics regression as a neural network
- Python and vectorisation

Hinton's Advice:

#1 - Read the literature but don't read too much of it.

#2 - For creative researchers, I think what you want to do is to read a little bit of the literature and notice something that you think everybody is doing wrong and contrarian in that sense, you look at it and it just doesn't feel right and then figure out how to do it right, and when people tell you that's no good....just keep at it. And I have a very good principle for helping people keep at it. Which is, either your intuitions are good or they're not. If your intuitions are good, you should follow them and you will eventually be successful. If your intuitions are not good, it doesn't matter what you do.

#3 - Never stop programming!

#4 - I think one should reach enough to start building intuitions and then trust your intuitions and go for it. And, don't be too worried if everybody else says is nonsense.

#5 - If you think its a really good idea and other people tell you it's complete nonsense, then you know you're really on to something.

#6 - one good piece of advice for new grad students, see if you can find an adviser who has beliefs similar to yours because if you work on stuff that your adviser feels deeply about you'll get a lot of good advice and time from your adviser.