



COMP30170 Final Year Project

ConvNets for iOS Gesture Recognition Applications

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1 Update

- Finished app. Just need to run through some of the back end database stuff to ensure data is safe and that there are no loop holes.
- Nearly have permission. There were a few minor details to fix up. Nothing major though.
- No update on the NN side of things. Was focusing on app to get data recorded.

2 Items for discussion

- Review app and talk through possible database issues
Need to add in force and also the finger and thumb into database
protobuffers - google
create 28x28 bit images and use as test set on trained MNIST
also other way? - convert MNIST to strokes...
arc length and first derivative...

3 Plan for Next Week

In order of priority from top to bottom

- Get data recorded and test it on CNN by normalising to 28 x 28 so that it's the same as MNIST.

4 Meeting Notes

References

- [1] P. Hegarty. (2016) Developing ios 8 apps with swift. [Online]. Available: <https://itunes.apple.com/en/course/developing-ios-8-apps-swift/id961180099>
- [2] Ng. (2016) Stanford course on machine learning. [Online]. Available: <https://www.coursera.org/learn/machine-learning>
- [3] V. Vanhoucke. (2016) Udacity course on machine learning. [Online]. Available: <https://www.udacity.com/course/deep-learning--ud730>
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