Assignment 3

COMP 4107

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Q1

After many many hours sunk into this thing in hopes I could still get a high enough grade to evade the double pass rule I have failed. I've done everything I can but the network will not give expected results. It appears to work for single digit types but for 1s and 5s it only seems to classify what appears to be 1s 5s are unreliable at best, I think I witnessed one or two good occurrences in all my testing. The Storkey algorithm is there and implemented but it appears to suffer from the same issues. My frustration can be observed not just in the q1.py file but in old-q1.py and theoryTest.py.

I ignored the fact that the network gave me undesirable results and tried to get metrics for you anyway. I understood from the slides that minimums would be formed from the training vectors. My assumption was that the training vectors would present themselves in the network and I could use this to identify when the network succeeded and compare labels to determine if the output is indeed a valid minimum to return. The network failed to return a minimum which I could identify by anything more than occurrence.

Q2

Gave it a shot but ultimately never could distinguish exactly how the network was built. The RBF layer made sense but by following content available to us the kmeans methods would group the data and give a solution out at the end of it. When the kclustering gives and answer how does that link into the output of the neural network? This didn't work for me.

Q3

Q2 dependant, come on man why even make it a separate question?

Q4

To mentally fatigued to get into it, I have 7 courses including a 3004 project to get done and 2 labs for advanced analytical chemistry with 2 full experiments to design. I give up… that's it. Take mercy on me for whatever's there I guess on my 37^{th} hour I'm going T.F. to bed.