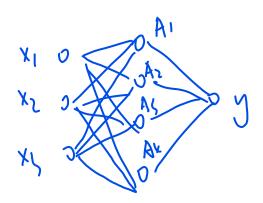
CMSE381 - Quiz 11

1. (3pts) Draw a sketch of a neural network taking as input data points of the form (X1, X2, X3) (so p = 3) with one hidden layer containing four hidden units.



2. (3pts) How many parameters are trained by the computer in this setup? Justify your answer.

weight in layor I is a 3xx matrix: 3xx=12 param

4 hins associated to the hidden layer: 4 param.

4 weights in layer 2: 4 param

1 bias associated to the autput layer: 1 param

Total no. of param: 12+4+4+1=21

Final Survey (4pts) We're reaching the end of the semester!
• How do you feel like the class is going overall, either in general or for you specifically?
• What is one thing you wish you had done to achieve greater success?
• What recommendations, if any, would you provide to the instructors for the develop-
ment of future versions of this course?