Homework 3

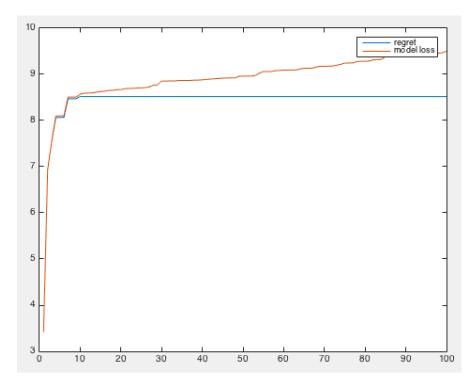
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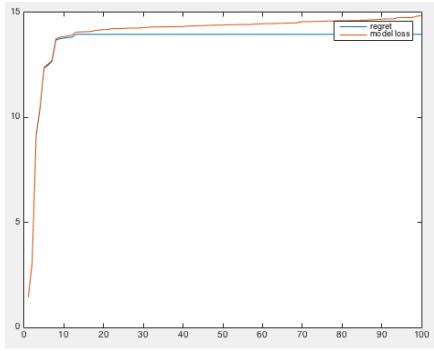
Question 1 (Hedge)

C.

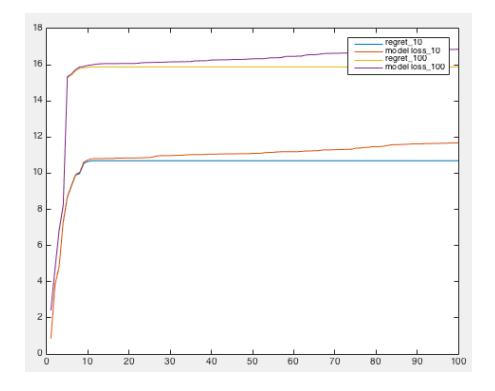
n=10:



n=100:

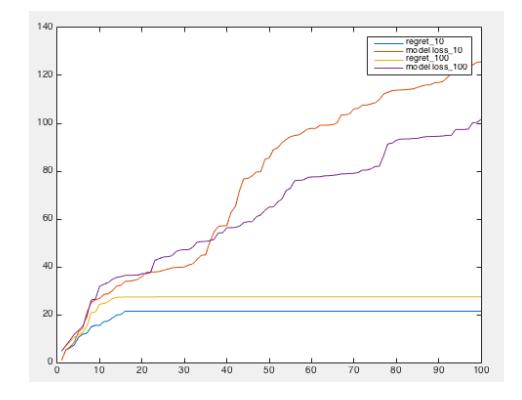






The average regret curve and the loss curve change much, because with higher experts , it is harder to converge.

E.



It can say that the experts at dataset2 are comparatively bad.

G. 30 tests are needed.

Question 2 (Winnow)

B. 100, 390, 449, 821, 901.

Question 3

C. totalYeild_band = 2.2006e+03 totalYeild_rep = 1.0527e+03

radius = 2.0904