

6.) Param: assumes a particular functional/distributional form
w/ given params, while non-param does not.

Adv Param if the form assumed is close, will
be much more powerful.

Dis: ... not close to
true data structure, then will be less accurate.

7.) (a)

obs	Eucl Dist
1	$0^2 + 3^2 + 0^2 = 9$
2	$4^2 + \dots$

$\sqrt{0^2 + 3^2 + 0^2} = 3$
 $= 2$

(b) Green, since 1 nearest neighbor
is obs #5.

(c) obs #5 (dist = 2) - ~~G~~ G
#2 (dist = 4) - R
#6 (dist = 3) - R } Red, since
plurality
vote = Bayes
classifier.

(d) Small, since we would only
want to train using a small
neighborhood.