Gaussian Processes

A) Plan: apply Lemma I - p((Y)) -> apply conditional normal dist. From Exercise 1

Solution:

I= CNXN' · CNXN

y N (O, C (z, z, b) + o2 I)

wavginal max. libelihead / empirical bayes / evidence -> way to choose hyperparams (but difficult)

log p (y) = -1 y [C (z, z, b) + o2 I] y - 1 log (de+ | C (z, z, b) + o2 I|)

dense coverience

Matrix -> difficult to invert

How can we make the cov. matrix sparse?