Inf2b Learning and Data

Lecture -: Revision meeting

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http://www.inf.ed.ac.uk/teaching/courses/inf2b/
https://piazza.com/ed.ac.uk/spring2018/infr08009learning
Office hours: Wednesdays at 14:00-15:00 in IF-3.04

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Time in the exam - tips on writing answers

- Write not only the result/answer, but the process of how it was derived.
- Avoid illegible handwriting - write your answer clearly so that markers can read it.
- Calculators may be used in the Inf2b examination. NB: it's your responsibility to bring an approved calculator to the exam.

Question 1

Sketching Gaussian distributions

- *Regarding sketching 2D guassian distributions - given a 2x2 covariance matrix (and mean vector), how do you sketch the guassian distribution? I'm mostly struggling to understand how the covariance matrix affects the plot.*
- *Especially contour plots of bi-variate Gaussian distributions:*
  - *How do we determine the position of the contour ellipses and their sizes?*
  - *How precise should sketches be overall, including apart from contour plots one-dimensional Gaussians and class boundaries?*

Question 1 *(cont.)*

- Centre of the distribution
- At least one contour ellipse, whose two axes are reasonably accurate. The size of contour is arbitrary if only one distribution is shown.

Question 2

If you could go over the Logistic Discriminant functions one more time, during the revision lecture of this afternoon. More precisely, sections 11.5 and 11.6 of the notes.

Question 3

Any LaTeX source files for the maths formulae appeared in the course?

A LaTeX file for those appeard in the last lecture can be found in the course web page: http://www.inf.ed.ac.uk/teaching/courses/inf2b/lectureSchedule.html