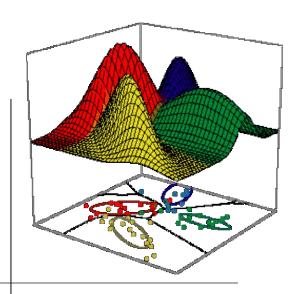
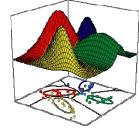
SYSC5405 / BIOM 5405



Term Project Proposals 26 Nov 2019

Pitch Presentations

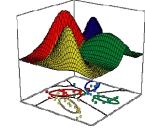


 The proposal detailing the pattern classification approach that you plan to use, including a source for an implementation of your chosen method. This will be a 5 minute presentation with ~6 slides.

Goals:

- Make sure everyone has a group, has a method, and has an implementation by week 1
- 2. Give everyone a teaser of what your competitors are thinking
- Generate some excitement!!

Order of presentations 6 slides, 5 minutes each



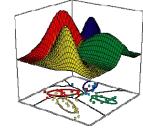
#	Approach	Members	
1	Support vector machines	Pedro C, Daniel K, Eric M	8:38
2	Decision Forests	Andi H, Chanho K, David L	8:43
3	Linear discriminants	Kelly B, Pascale J, Shane S	8:48
4	Convolutional neural networks	Vishwaa B, Niyati D, Reeham H	8:53
5	K-nearest-neighbour	Prathmesh R, Puneet S, Abhinav Y	8:58
6	Recurrent neural networks	Joel MK, Maryam TE, Nidheesh V	9:03
7	Decision trees	Ben E, Mohamed H, Jason M, Ian S	9:08
8	Bayesian belief networks	Anchen L, Zuwen S, Hongzhi Z	9:13
9	Radial basis function networks	Anshumaan AA, Ramanjeet K, Navleen KS, Arjun K	9:18
10	Logistic regression	Mingfang H, Vishnu R, Yiying Z	9:23
11	Feed-forward neural networks	Tarim I, Hamza S, Nizamuddin MS	9:28
12	K-means clustering	Kristen B, Victor C, Matthew M	9:33
13	Probabilistic neural networks	Ash N, Mohamed Z, ???	9:38
14	Gradient-boosted decision trees	Bala PK, Swetha MN, Sreeram S	9:43

Next: Project Pitch – 3 Dec

- The pitch consisting of a presentation with ~6 slides describing your approach, your predicted accuracy, and how you computed it. Each group will be given 5 minutes to pitch their method as being the best approach. At the conclusion of this class, all groups will be provided with the blind test data set. Slides should cover:
 - a) Quickly review method/implementation
 - b) Describe your experiment design
 - c) Describe any pre-processing of the data
 - d) Describe training/testing protocol
 - e) Describe your meta learning strategy (mandatory)
 - Provide your estimated Re@Pr50 (including the standard deviation of your estimate) and describe your methodology for estimating your "true" Re@Pr50

(i.e. the Re@Pr50 you should expect when applied to new test data).

Reminder: Project Evaluation



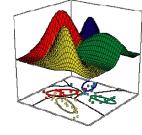
- You will be evaluated on:
 - 1) Prediction accuracy over test data set
 - as measured by maximum achievable recall at a precision of at least 50% (Re@Pr50)

$$Score_{Accuracy} = Re@Pr50$$

- 2) How close your predicted Re@Pr50 is to your actual test Re@Pr50
 - Provide a mean and standard deviation σ

$$Score_{precision} = p(x = Score_{actual}), \text{ if } p(x) \sim N(Score_{pred}, \sigma^2)$$

Schedule



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Tuesday 19 Nov: Competition announced.

Tuesday 26 Nov: Project proposal presentations

Tuesday 3 Dec: Pitch presentations given.

3pm Wednesday 4 Dec: Final classification of blind data submitted on CULearn.

Thursday 5 Dec: Results announced. Winners glorified. Prizes distributed.

Monday 16 Dec: Final reports submitted electronically via CULearn.