Class Project
mas622j
Pattern Recognition
Project

- Must contain elements of techniques covered in the course.
- May be based on your own data OR data from third party.
- Examples of previous projects on the class website.
Project

- Roz will be holding extra office hours to discuss project ideas, data and progress.
- You can also speak to the TAs if you have any concerns.
Timeline

• 2/11 - Presentation of potential datasets.
• 4/11 - 1 page proposal required if using own data (email to: picard@mit.edu, cc: TAs)
• 9/11 - 1 page proposal required if using class data.
• 18/11 - Project critique day.
• 7 & 9/12 - Project presentation days.
• MUST attend class for these final three
Datasets
Datasets

• Physiological responses to media:
  • Heart rate, respiration, skin conductance, facial features.
  • Are there patterns in responses to disgust/anger/amusement inducing clips?
• Talk to Dan.
Datasets

- Analyzing stress of call center employees:
  - Skin conductance, call timing and self report stress levels.
  - Talk to Javier.
UCI Website

• UCI Machine Learning Repository:
  ➡ http://archive.ics.uci.edu/ml/

• Try to choose one of the newer datasets.

• Try techniques - take a different perspective from the published methods (Can you beat them?)
StatLib

- CMU Repository:
  - [http://lib.stat.cmu.edu/datasets/](http://lib.stat.cmu.edu/datasets/)
- Data a little older but still some interesting problems.
Finance

• Predicting market performance.
• Past prices, news headlines, twitter.
• Talk to Dan.
Using your own data?

- Is it labeled, or partially labeled?
- What is the ground truth?
- Do you have any intuition about the structure?
Remember

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