

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/>
- Data a little older but still some interesting problems.

Finance

- Predicting market performance.
- Past prices, news headlines, twitter.
- Talk to Dan.

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Capital One Bank THAT'S 3X THE

Top Headlines Most Popular Stories

Fed Likely to Announce \$500 Billion of Purchases, Survey Shows
The Federal Reserve will probably begin a new round of unconventional monetary easing this week by announcing a plan to buy at least \$500 billion of long-term securities, according to economists surveyed by Bloomberg News.

Potash Options Traders Boosting Wagers on Higher Takeover Bid
Options traders are boosting wagers that BHP Billiton Ltd. and potential rivals will bid higher than the \$40 billion already offered by the world's biggest mining company for Potash Corp. of Saskatchewan Inc.

China Boss in Peru on \$50 Billion Peak Bought for \$810 Million
The Chinese entrepreneur and the Peruvian shopkeeper have never met. Yet Li Shiping's dream of riches and success in China is uprooting Victor Raul Ancieta's

Market Snapshot

U.S. Europe Asia

Nov 2 9:05
Bloomberg L.P. 9:00
9:55
9:50
9:45
9:40
9:35
9:30

NIKKEI 9151.35 -3.37 (-0.04%)
TOPIX 801.73 -1.57 (-0.20%)
HANG SENG 23608.20 -44.76 (-0.19%)

Stocks on the Move

YAHOO! FINANCE

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GET QUOTES Finance Search

Scottrade: \$7 Online Stock Trades & Powerful Trading Tools

MARKET SUMMARY

US EUROPE ASIA

Dow 11,124.62 +6.13 +0.06%
Nasdaq 2,504.84 -2.57 -0.10%
S&P 500 1,184.38 +1.12 +0.09%
10 Yr Bond(%) 2.6280% +0.0160
Oil 83.18 +0.23 +0.28%

CLZ10.NYM Nov 1, 10:02pm EDT

TOP STORIES

Sources: GM IPO expected to raise \$13 billion - AP
The sale of General Motors stock is expected to raise \$13 billion in an initial public offering in mid-November, three people briefed on the sale said Monday.

- Car buyers likelier to find deals later this year - AP
- Enron's Skilling seeks new trial in Houston appeal - AP
- Stocks retreat from early gains - AP
- Fixing cargo security system would cost billions - AP
- Ambac in talks for prepackaged bankruptcy - AP
- UPS says 2011 rates will rise 4.9 percent - AP
- Why growth will stay too weak to ease unemployment - AP
- Economy offers mixed picture day before election - AP
- Bankruptcy case looms for National Enquirer owner - AP

Using your own data?

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

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