Cogs 118A: Final Project
Winter Quarter, 2010

March 11, 2010

- 30% of total grade
- Group project of 2-3 people
- Topic: application of machine learning methods to cognitive science, neuroscience, linguistics, computer science
- Data: research lab, UCI machine learning repository, synthetic, newly collected
- Examples: fMRI data analysis, spike sorting, digit classification, face recognition, image categorization, comparison of algorithms using synthetic or real data
- Proposal (due 02/23, 20%)
  - Background, motivation, and goals
  - Procedure (problem formulation, Matlab, math, interpretation/analysis)
  - Expected outcome, significance
  - Data set
  - Division of labor
- Write-up in LaTeX (due 03/16, 40%) – it should elaborate on the proposal and incorporate results, interpretation, and discussion, 3-5 pages
  - Background, motivation
  - Procedure, methods
  - Results
  - Interpretation/significance
  - Relationship to existing work
- Presentation (03/16: 11:30 am - 2:30 pm, max 30 min, 40%)
  - Group presentation divided among team members
  - Same general structure as write-up
  - Try to give engaging, illuminating pictorial illustration and graphical examples