A BARD

CMPTGCS10

Computer Learning

TR, 5pm-6:50pm, CCS(BLDG494) Room 143

Faculty Advisor: Omer Egecioglu (omer@cs.ucsb.edu)
Student Leaders: Jeremy Irvin (jirvin@umail.ucsb.edu)
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Course Description: Introduction to basic methods and techniques in Machine Learning, Natural Language Processing, and Deep Learning. Applications include (but not limited to) Computer Vision, Information Retrieval, and Robotics. The main goal of this course is to prepare students for graduate level Artificial Intelligence classes and potential research opportunities.

Class Site: http://computer-learning.github.io/class/ Max Units: 2

Project: Read a survey of a related topic and pick a paper from it to present to the class.

Tentative S	chedule:
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TUESDAY	Thursday
Jan 5th 1 Probability Review; Basic Text Processing	7th 2 Linear Algebra Review; Edit Distance
12th Linear Algebra, Multivariable Calculus	14th 4 Learning Theory, Linear Regression
19th 5 Logistic Regression, Naive Bayes	21st 6 Naive Bayes, Generative v. Discriminative
26th 7 Hidden Markov Models	28th 8 Information Extraction
Feb 2nd 9 Semantics, Natural Language Understanding	4th 10 Language Modeling, n-grams
9th 11 Word Embeddings: word2vec, GloVe	11th 12 Support Vector Machines
16th 13 Support Vector Machines	18th 14 Clustering
23rd 15 Perceptron / FFNN / MLP	25th 16 BackProp / Training Deep Nets
Mar 1st TBD	TBD 18
8th 19 TBD	10th 20 Paper Presentations