

Topics in Machine Learning (CS729)

Instructor: Saketh

Lecture Slot: 10 (Tue, Fri 2pm-3:25pm)

Lecture Venue: SI-C305

Office Hours: Mon (3pm-5pm; SI-A306)

Phone: 7903

About the course

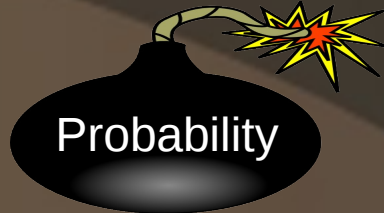
- Advanced and specialized
- Focus on
 - “Loss-regularized Kernel Methods”
 - Theory and Algorithms rather than applications

Syllabus

- Learning Theory
 - Supervised Induction Case, Rademacher Bounding, Consistency
- Study of Kernel Methods
 - Loss-regularized set-ups, Universal kernels, non-Euclidean kernels
- Kernel Learning
 - Lasso, Specialised regularizers and Algorithms

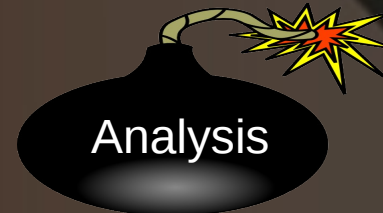
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Do's & Don'ts

- Do take the course:
 - Working in ML (not applying ML)
 - Don't hate (or love :) math
 - Work hard, attend lectures
- Don't take the course:
 - As a first course on ML
 - Hate math
 - Want good grades ;)

Evaluation Scheme

- 3 Graded assignments
- End semester exam
- Good-will grade
- Overall grade is the mean grade corrected with good-will

Non-serious Guys

- Audit requirement: 100% attendance
- Sit-through: Always welcome

