

Data Analytics/Machine Learning for Computer Engineers (289Q)

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Introduction

- What is machine learning (ML) and why should computer engineers (CE) care?
- A bit of background
 - Why is a CE teaching this course?
 - What I mean by “ML for CEs”?
 - 289Q

Organization

- Course structure
 - Instructor led discussion mode (~April)
 - ~weekly hw assignments (25%)
 - Student led discussion mode (~May)
 - Paper presentations, discussions and participation (25%)
 - Course project (50%)

Acknowledgements

- I will be using (possibly with some customization) publicly available material from several sources
 - Prof. Yasser Abu-Mosatafa (Caltech)
 - Prof. Geoff Hinton (Univ of Toronto)
 - Prof. Andrew Ng (Stanford)
 - Several other colleagues (Yann LeCun, Bill Dally, Jason Cong, Yoshua Bengio, Kurt Keutzer, etc)
 - I will try to retain the citations to better acknowledge the source whenever possible