$\operatorname{IN-STK5000}$ presentation WIP

Espen H. Kristensen (espenhk)

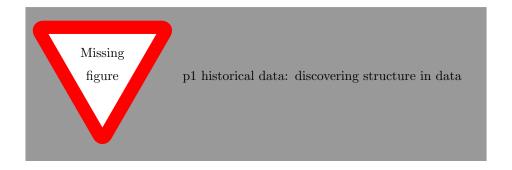
November 30, 2018

complete

Todo list

complet	se title	1
Figure:	p1 historical data: discovering structure in data	1
Figure:	p1 historical data: measuring effect of actions	1
Figure:	implement estimate utility on historical data	2
Figure:	measure utility of historical policy on historical data	2
Figure:	provide error bounds, explain	2
Figure:	find improved policy	3
Figure:	calculate expected utility of improved policy from historical data,	
im	plement in estimate utility	3
Figure:	Create HistoricalRecommender	3
Figure:	$\label{lem:commender} Create \ Improved Recommender \ . \ . \ . \ . \ . \ . \ . \ . \ . \ $	3
Figure:	comment differences from exercise $2 \dots \dots \dots \dots$	4
Figure:	Create AdaptiveRecommender	4
Figure:	Add case 2, action $2 = improved treatment \dots \dots$	4
Figure:	plan to maximize expected no. of treated	4
Figure:	report both by exp no. of treated and most effective policy	5
Figure:	implement final analysis (see pts 1-4)	5

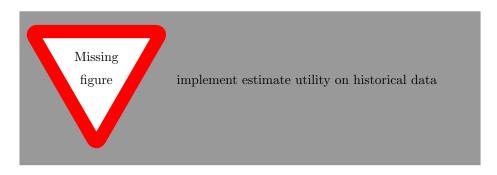
1 Historical data

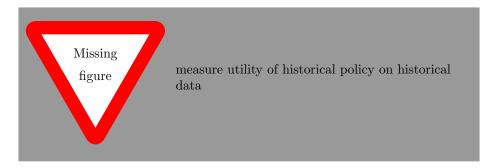




2 Improved policies

Exercise 1 (Measuring utility)

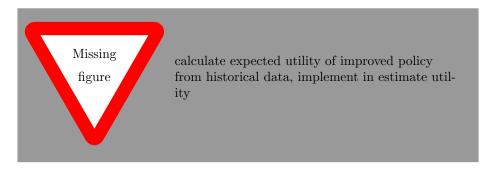






Exercise 2 (Improved policies)





3 Adaptive experiment design

Exercise 3 (Online policy testing)







Exercise 4 (Adaptive experiments)



