$\operatorname{IN-STK5000}$ presentation WIP

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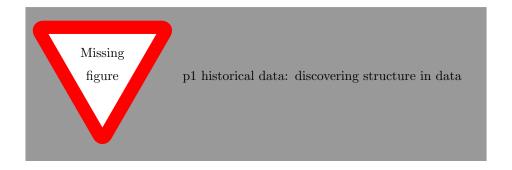
November 19, 2018

complete

Todo list

complet	e 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:	procide error bounds, explain	2
Figure:	find improved policy	3
Figure:	calculate expected utility of improved policy from historical data,	
$_{ m im}$	plement in estimate utility	3
Figure:	Create HistoricalRecommender	3
Figure:	Create ImprovedRecommender	3
Figure:	comment differences from exercise $2 \dots \dots \dots \dots$	4
Figure:	Create AdaptiveRecommender	4
Figure:	Add case 2, action $2 = \text{improved treatment} \dots \dots \dots$	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

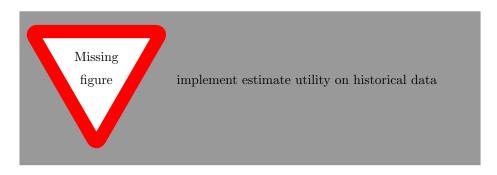
1 Historical data

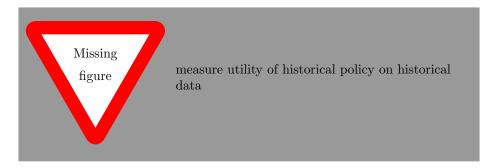




2 Improved policies

Exercise 1 (Measuring utility)

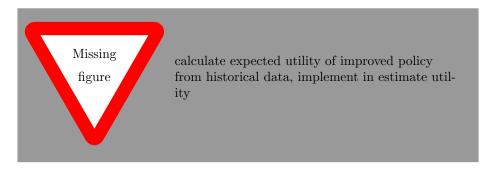






Exercise 2 (Improved policies)





3 Adaptive experiment design

Exercise 3 (Online policy testing)







Exercise 4 (Adaptive experiments)



