Motivation

Euiter

10 3 FOLLOWING FOLLOWERS Compose new Tweet Image: Sup Instagr.am/p/LDZUA9sSBv/ Who to follow · Refresh · View all Image: Sup Instagr.am/p/LDZUA9sSBv/ Mono to follow · Refresh · View all Image: Sup Instagr.am/p/LDZUA9sSBv/ Mono to follow · Refresh · View all Image: Sup Instagr.am/p/LDZUA9sSBv/ Mono to follow · Refresh · View all Image: Sup Instagr.am/p/LDZUA9sSBv/ A lot of messages are posted every day. Many messages include real-time information	In the second	10 3 FOLLOWING 3 Compose new Tweet Image: Sup instagr.am/p/LDZUA9sSBv/ Who to follow · Refresh · View all Image: Sup instagr.am/p/LDZUA9sSBv/ A lot of messages are posted every day. Many messages include real-time information Worldwide trends · Change	View my p	profile page			Tweet	S	
Compose new Tweet Who to follow · Refresh · View all I'm so excited to perform tonight. I saw the most amazing show in Bangkok, time for you to see mine ladies! This city is one of my favorites A lot of messages are posted every day. Many messages include real-time informatio	Compose new Tweet Who to follow · Refresh · View all Image: Second Se	Compose new Tweet Who to follow · Refresh · View all I'm so excited to perform tonight. I saw the most amazing show i Bangkok, time for you to see mine ladies! This city is one of my favorites A lot of messages are posted every day. Many messages include real-time information Worldwide trends · Change	TS FOLLO	OWING F	3 FOLLOWERS		1	sup instagr.am/p/LDZUA9sSBv/	9m
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Many messages include real-time informatio	Any messages include real-time information	Many messages include real-time information						lavontes	
		Worldwide trends · Change	A lo	ot o	of me	essag	jes	are posted every day.	

#EstadioNuncaTerão lappy Geek Pride D Sing or Dance Marry The Taylo Overused Line Bad Taylor Save The Last Danc

Vindows Down



Problem

- Users often find a message including some real-time information only after its value has decreased.
- Some old but useful messages are buried in many old messages whose value has decreased.

Classify into three categories

messages that users should read now messages that users may read later messages that are not useful anymore

Should Read Now	May Read Later	Useless Anymore
O Thu May Thinking of that that	24 09:44:32 2012 one person, and not being able	to stop smiling.
GOODNIGHT!	ay 25 09:09:41 2012	
••Fri well my hair is pink.	May 25 13:06:51 2012	



accuracy(%)	exact	exact or -1	exact or ±1
ulticlass decision tree	34.55	47.82	65.81
e binary SVMs	26.32	38.94	60.74
SVMs w/ monotonic	28.54	43.78	65.62
SVMs w/ probabilistic	38.59	53.97	74.40

d fosturo	SVM						
u leature	10 min	1 hour	6 hours	1 day	1 week		
h all	55.27	57.49	70.00	74.35	75.45		
y words	54.79	48.03	72.09	74.37	75.44		
v photos	55.45	59.26	55.35	58.01	58.81		

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