## **Business problem:**

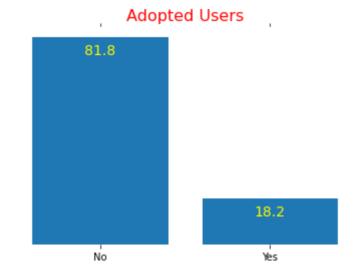
Identify which factors predict future user adoption

## Who are the adopted users?

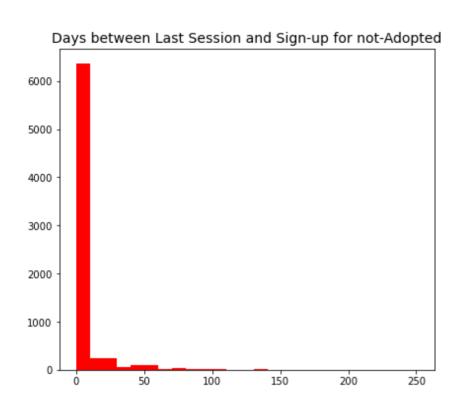
Adopted user: as a user who has logged into the product on three separate days in at least one seven day period.

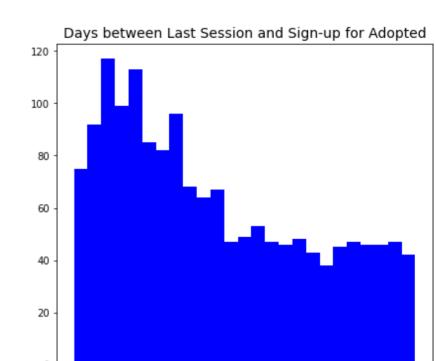
After merging and analyzing two tables about users who signed up to use a product from '2012-05-31' to '2014-06-06' I found:

• From 12000 users who signed up, 3177 of them didn't have logged-in for any sessions. From the remaining 8823 users who created session at least one time, only 1602 has adopted.



• Not adopted users were mostly logged-in in the first 3 months, but majority of adopted users created sessions in the first year.





300

400

500

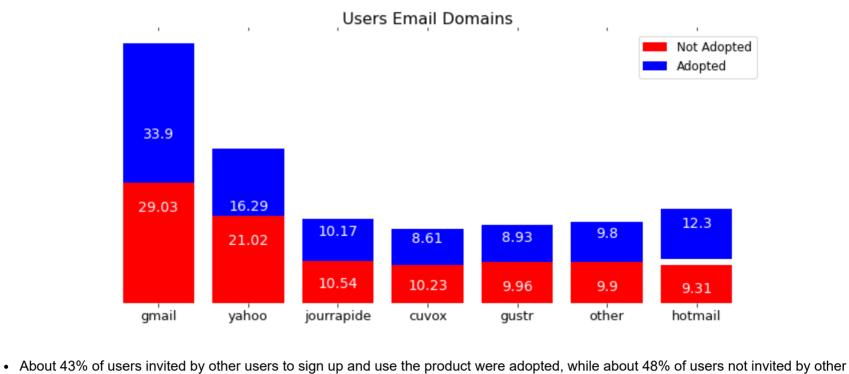
600

700

100

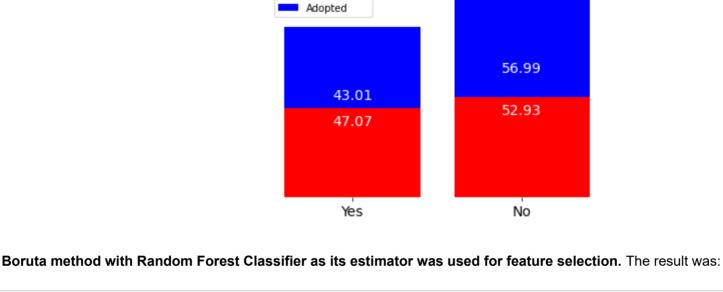
domains were higher than percentage of not adopted users.

• Majority of users signed up by their gmail and yahoo email address. Percentage of adopted users signed up with gmail and hotmail



users were adopted. Users who waere not invited by other users, significantly adopted (57%).

Users Invited by Other Users



from IPython.display import Image
Image('E:/Springboard/Unit 26\_Effective Interviewing for Data Scientists/26.2 Take home challenge/relax
\_challenge/Ranking.png')

In [22]:

Out[22]:

Not Adopted

Feature Rank

	1 Catare	Marik
3	timedelta_lastsession_signup	1
11	org_id_hash1	2
12	org_id_hash2	3
18	org_id_hash8	4
2	invited	5
13	org_id_hash3	6
20	org_id_hash10	7
19	org_id_hash9	8
14	org_id_hash4	9
0	opted_in_to_mailing_list	10
5	email_domain_gmail	11
1	enabled_for_marketing_drip	12
10	email_domain_yahoo	13
4	email_domain_cuvox	14
7	email_domain_hotmail	15
8	email_domain_jourrapide	16
6	email_domain_gustr	16
9	email_domain_other	18
15	org_id_hash5	20

## 16 org\_id\_hash6

17	org_id_hash7	20

**About selected features:** 

'timedelta\_lastsession\_signup', time between the signed up and last logged-in is the most important feature. If user has been invited by other user, it would increase the probability that the user would be adopted. If user has been opted to receive marketing email, or signed up from gmail domain the probability of being adopted would be incressed.

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