Mobile Safety

Android

April 6th,2017

I. Matching Algorithm

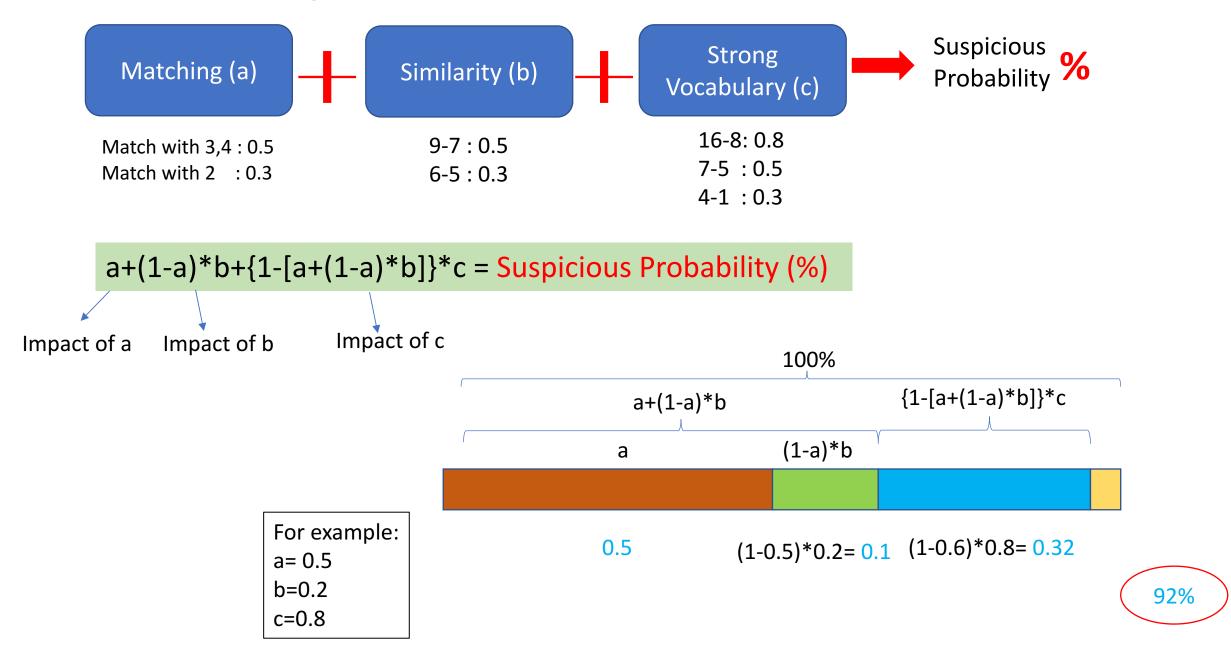
	Matched	Total		
"Everyone"	3096 —	28974	-	iOS "12+", "17+": 280
Total	3826	36927		iOS "9+": 160 iOS "4+": 2656

II. Similarity Algorithm

- number of suspicious app under different threshold

Threshold	Freq + Control	Occur + Control	Tfidf + Control	Freq + All	Occur + All	Tfidf + All		
9	16	21	25	57	36	58		
8	69	51	80	165	111	159	_	0.5
7	182	116	190	323	270	321		
6	370	243	392	576	497	594		0.5
5	701	484	751	992	861	1028		0.3

III. Ensemble 3 Algorithms



Compared with an Average approach

1. (a+b+c)/3

	а	b	С	
1)	0.9	0	0	(
2)	0.3	0.3	0.3	(

0.3

0.3

2. (a+b+c)/(number of non-zeros)

	а	b	С	
1)	0.9	0.1	0	0.5
2)	0.5	0	0	0.5

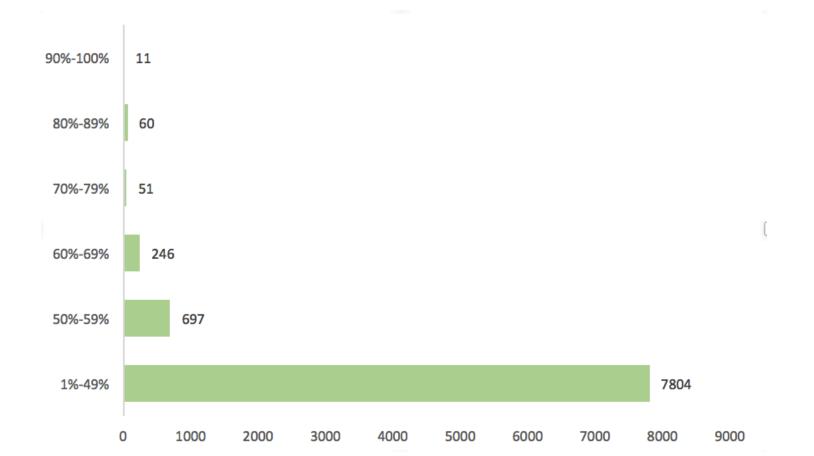
Will not show the strong suspicious probability

Suspicious Apps

С	D	E	F	G	Н		J	K	L
name 🔻	sub_categor ▼	maturity_	maturity_	description	a value	b value 🔻	c value 💌	probability↓	
7 Ultimate Gun Simulator	Simulation	Everyone		Ultimate Gun Simulator perfect gun app w	itl 0.5	0.3	0.8	93.0%	
6 Weapon simulator	Simulation	Everyone		Weapons Simulator is the best game about	g 0.5	0.3	0.8	93.0%	
1 Black Ops Shooting Range 3D	Simulation	Everyone		Discover the hidden marksman inside you g	ge C	0.5	0.8	90.0%	
3 FRONTLINE COMMANDO 2017	Action	Everyone	Mild Fantas	Brace yourself for the best first person show	ot C	0.5	0.8	90.0%	
6 Full Moon Wolf Slot machines	Casino	Everyone		We launched for people who love to live or	it C	0.5	0.8	90.0%	
B Gun Club 2	Action	Everyone		GUN SPECIAL ALL THEME PACKS 50% OFF!	W 0.5	C	0.8	90.0%	
0 Modern Little Hunter	Arcade	Everyone		Step into the action as the latest installmen	t C	0.5	0.8	90.0%	
1 Real Shooting Army Training	Action	Everyone		Aim and Shoot! Modern Army Commando	w c	0.5	0.8	90.0%	
6 Shooting Targets	Sports	Everyone		Are you crazy about guns and snipers? The	וו כ	0.5	0.8	90.0%	
O Sniper Action School	Action	Everyone	Mild Fantas	Sniper Action School is an interactive shoot	er C	0.5	0.8	90.0%	
6 Traffic Sniper Shooter	Action	Everyone		Aim and Shoot! Realistic graphics and amaz	in C	0.5	0.8	90.0%	
5 Wild Hunter	Adventure	Everyone		Wild Hunter is a complete action pack shoo	ti 0.5	0.5	0.5	87.5%	
3 Air Fighter: Airplane Shooting	Action	Everyone		Fight the wicked goblin invaders and beat t	he C	0.3	0.8	86.0%	
9 Gun Builder Custom Guns Pro	Simulation	Everyone		Start your journey through the world of we	ar C	0.3	0.8	86.0%	
7 Gun Camera: Augmented Reality	Action	Everyone	Mild Fantas	Augmented Shooter in Augmented Reality	s C	0.3	0.8	86.0%	
5 Gun Sim Weapons	Simulation	Everyone		Gun Sim Weapons perfect gun app with big	g a C	0.3	0.8	86.0%	
7 Guns & Cowboys: Bounty Hunter	Action	Everyone		Theres a new sheriff in town! Outlaws and	ba C	0.3	0.8	86.0%	
0 Guns simulator	Simulation	Everyone		Do you like guns sound? Realistic Guns sou	nc C	0.3	0.8	86.0%	
3 Guns: Shooting Range	Action	Everyone		Guns: Shooting Range is an awesome weap	oi C	0.3	0.8	86.0%	
5 Gunslinger Ghostrider Bullseye	Role Playing	Everyone		What happens when an western gunslinger	d C	0.3	0.8	86.0%	
4 Metal Shooter Super Soldiers	Action	Everyone		Soldiers Gun contra classic is a game take y	/o C	0.3	0.8	86.0%	
9 Modern Army Strike	Action	Everyone	Mild Fantas	Modern Army strike throws a shadow of air	·p 0	0.3	0.8	86.0%	
9 Prison Escape Jail Breakout 3D	Role Playing	Everyone		Prison Escape Jail Breakout 3D simulator, is	a 0	0.3	0.8	86.0%	
2 Real Shooting Gun Simulator	Simulation	Everyone		Welcome to the world of Weapons, for you	r C	0.3	0.8	86.0%	
0 Shark Hunter 2017	Action	Everyone		Get ready hunting the sharks in the Deep o	ce C	0.3	0.8	86.0%	
5 SimGun2 Custom	Simulation	Everyone		Total 91 guns is free now. Welcome to cust	to C	0.3	0.8	86.0%	
4 Sky Runner Balloons Fight	Arcade	Everyone		If you are one of a favorite retro funny gam	e: C	0.3	0.8	86.0%	
9 Supermarket Prisoner Escape 3D	Role Playing	Everyone		Some dangerous gangsters and prisoners sp	oe C	0.3	0.8	86.0%	
2 Survival ONLINE: War at Island	Action	Everyone		Welcome to online battlefield! Grab your g	ur C	0.3	0.8	86.0%	
3 Backgammon	Board	Everyone		Backgammon is one of the oldest board gai	m 0.5	0.5	0.3	82.5%	
		-	1						

Suspicious Probability

0%	1%-49%	50%-59%	60%-69%	70%-79%	80%-89%	90%-100%	total
20105	7804	697	246	51	60	11	28974



- 1. CACM magazine (3000 words)
- -download papers
- 2. data list (each algorithm 200) ensemble: voting, avg, my ensemble
- 3. MTurk