

kaggle™

My journey to becoming a
Kaggle Grandmaster
and how I turned Kaggle
success into a startup



raddar

Co-Founder & Data Scientist at oxicpit.ai
Vilnius, Lithuania
Joined 3 years ago · last seen in the past day

[Profile](#) [Competitions](#) (48) [Kernels](#) (18) [Discussion](#) (524) [Datasets](#) [...](#) [Edit Profile](#)

Competitions Grandmaster 

Current Rank	Highest Rank	
10 of 96,048	4	
 10	 12	 4

[Intel & MobileODT Cervical...](#)  2 years ago · Top 1% **1st** of 848

[Predicting Red Hat Business...](#)  2 years ago · Top 1% **1st** of 2271

[BNP Paribas Cardif Claims ...](#)  3 years ago · Top 1% **1st** of 2926

Kernels Expert 

Current Rank	Highest Rank	
192 of 84,166	29	
 0	 5	 5

[0.98 xgboost on sparse mat...](#)  2 years ago **63** votes

[A competition without a lea...](#)  4 months ago **40** votes

[Variables shifting distributi...](#)  2 years ago **37** votes

Discussion Master 

Current Rank	Highest Rank	
19 of 80,133	2	
 35	 46	 245

[#1 Dexter's Lab winning sol...](#)  3 years ago **153** votes

[Proper validation framewor...](#)  2 years ago **145** votes

[in CV you must trust](#)  2 years ago **91** votes

- 2.8M population
- Basketball religion
- 1Gb/s internet 20\$
- 4G everywhere
- Most educated in Europe
- Oldest language in Europe

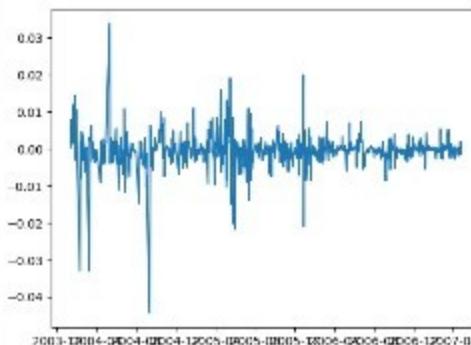
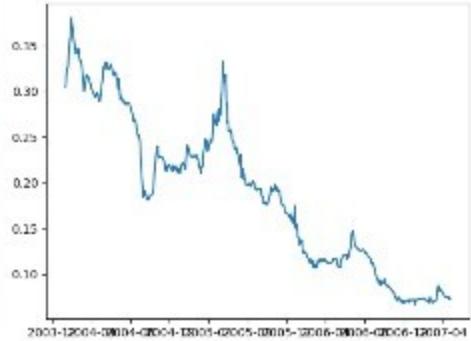
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Select Country: Lithuania

Max number of users to display: 100

<http://kagglerank.azurewebsites.net>

UserName	DisplayName	RegisterDate	Points	CurrentRanking	HighestRanking	Country	City
raddir	raddir	8/24/2015	119109	4	4	Lithuania	Vilnius
bobutis	bobutis	9/17/2015	45730	68	20	Lithuania	
zadrras	ZadrraS	1/26/2015	27671	166	34	Lithuania	Vilnius
darthpotato	DarthPotato	12/29/2015	14174	413	85	Lithuania	Vilnius
ubique	Ubique	6/14/2013	3874	1689	1237	Lithuania	Vilnius
pikquu	Pikqu	4/15/2013	1873	2715	503	Lithuania	
keptavista	ignl	3/24/2015	798	3606	1394	Lithuania	
renz85	Ren Z	8/22/2012	540	3965	487	Lithuania	Vilnius



- BSc & MSc in Econometrics
- Strong credit risk scoring background (~6 years)
- Models with Facebook data
- (~1M profiles nationwide)
- 30+ models for financial institutions
- Consulting (model delivery)

Competitions Master



in 1 month

Competitions Grandmaster



in 12 months

Co-Founder of DL startup



OXIPIT

after 3 years



Springleaf Marketing Response

Determine whether to send a direct mail piece to a customer

\$100,000 · 2,226 teams · 3 years ago



Overview Data Kernels Discussion Leaderboard Rules Team My Submissions Late Submission

Public Leaderboard Private Leaderboard

The private leaderboard is calculated with approximately 70% of the test data.

⟳ Refresh

This competition has completed. This leaderboard reflects the final standings.

■ In the money ■ Gold ■ Silver ■ Bronze

#	△pub	Team Name	Kernel	Team Members	Score	Entries	Last
1	—	Asian Ensemble			0.80426	274	3y
2	▲ 1	.baGGaj.			0.80393	166	3y
3	▲ 1	Merging the Mundane and th...			0.80389	44	3y
4	▼ 2	ARG eMMSamble			0.80367	328	3y
5	—	n_m			0.80208	50	3y
6	▲ 1	KazAnova & clobber			0.80194	64	3y
7	▼ 1	Gzs_iceberg			0.80178	30	3y

LVMH

Christian Dior
COUTURE

LOUIS VUITTON

SEPHORA

LOGICO

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Springleaf Marketing Response

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Refresh

In the money

Gold Silver Bronze

150k training data

#	Δpub	Team Name	Kernel	Team Members	Score	Entries	Last
1	—	Asian Ensemble		+3	0.80426	274	3y
2	▲ 1	.baGGaj.		+3	0.80393	166	3y
3	▲ 1	Merging the Mundane and th...		+3	0.80389	44	3y
4	▼ 2	AnGelmanCamer		+3	0.80367	328	3y
5	—	..._...			0.80208	50	3y
6	▲ 1	KazAnova & clobber		+3	0.80194	64	3y
7	▼ 1	Gzs_iceberg			0.80178	30	3y



Submission and Description	Private Score	Public Score	
xgboost_submission.csv 3 years ago by raddar xgboost example	0.76281	0.77026	First submission in Kaggle
result_xbm20150828_20.csv 3 years ago by raddar add submission details	0.79752	0.80288	5 days in Kaggle #4 on LB
result_xbm20150926_01.csv 3 years ago by raddar add submission details	0.79896	0.80449	1 month in Kaggle #2 on LB
Blend_LB0.80452_DairusLB0.80449(xgbweights0.4-0.98).rar 3 years ago by Shize Su add submission details	0.80111	0.80696	First teaming up experience
0_FinalBlend_Shize_LB0.80907(v2)_BestCVLB0.80841(0.88-0.... 3 years ago by Shize Su add submission details	0.80367	0.80904	First private LB upset #2->#4

In the money!

Kaggle Master title!

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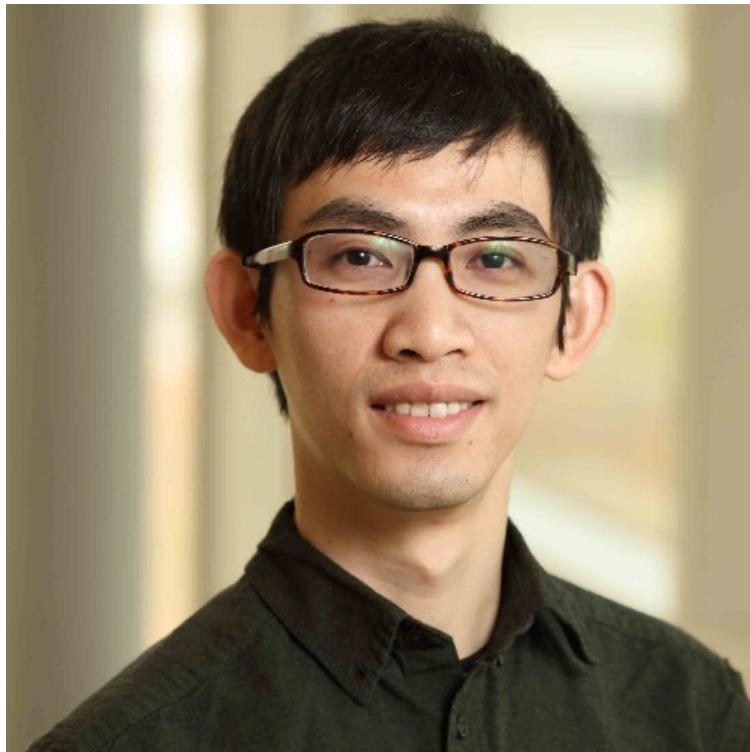
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Inspiration



Shize Su



Owen Zhang

Lessons learned:

- CPU/RAM management 1st priority
- Code quality control
- Work on a single model as long as you can
- Ignore public LB if competition design allows to
- ML model is a data generator function approximation
- Data tweaking: easier route to better approximation
- Tree methods ARE sensitive to noisy/useless features



**BNP PARIBAS
CARDIF**

BNP Paribas Cardif Claims Management

Can you accelerate BNP Paribas Cardif's claims management process?

\$30,000 · 2,926 teams · 3 years ago

Overview Data Kernels Discussion Leaderboard Rules Team

My Submissions

Late Submission

Public Leaderboard

Private Leaderboard

The private leaderboard is calculated with approximately 67% of the test data.

⟳ Refresh

This competition has completed. This leaderboard reflects the final standings.

■ In the money ■ Gold ■ Silver ■ Bronze

#	△pub	Team Name	Kernel	Team Members	Score ⓘ	Entries	Last
1	—	Dexter's Lab			0.42037	198	3y
2	—	escalated chi			0.42079	162	3y
3	—	Exploding Kittens			0.42182	124	3y
4	—	Branden Nickel utility			0.42259	251	3y
5	—	the flying burrito brothers			0.42450	264	3y

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days

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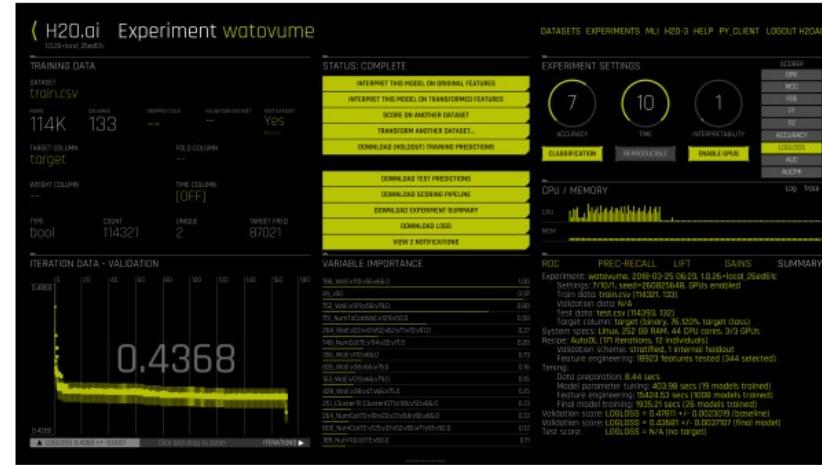
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Driverless AI: top 10 in BNP Paribas Kaggle competition



single run, fully automated: 2h on DGX Station! 6h on PC

BNP Paribas Cardif Claims Management

Can you accelerate BNP Paribas Cardif's claims management process?

\$30,000 • 2,926 teams • 2 years ago

Submission and Description	Private Score	Public Score	Use for Final Score
sub.csv 3 months ago by Arno Candel 940b9f 7/10/1 cv 0.4354 finished after 172 iters	0.42945	0.43156	<input type="checkbox"/>

#	△ pub	Team Name	Kernel	Team Members	Score @	Entries	Last
1	—	Dexter's Lab			0.42037	198	2y
2	—	escalated chi			0.42079	162	2y
3	—	Exploding Kittens			0.42182	124	2y
4	—	Branden Nickel utility			0.42259	251	2y
5	—	the flying burrito brothers			0.42450	264	2y
6	—	n_m			0.42535	4	2y
7	—	PAFY			0.42557	310	2y
8	—	KAME			0.42688	121	2y
9	—	Jack (Japan)			0.42744	22	2y
10	▲ 1	Dmitry & Bohdan			0.43000	192	2y
11	▲ 1	Li-Der			0.43006	56	2y
12	▼ 2	BK3M2PRS			0.43089	338	2y
13	—	x2x4x8			0.43107	55	2y
14	—	Frenchies			0.43146	134	2y
15	▲ 1	Ains			0.43168	55	2y
16	▼ 1	maze runners			0.43262	164	2y
17	—	BLR-2			0.43313	129	2y
18	▲ 3	no one			0.43317	88	2y

Driverless AI: 10th place in private LB at Kaggle (out of 2926)

2 months for Grandmasters — 2 hours for Driverless AI

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ID	target	v1	v2	v3	v4	v5	v6	v7	v8	v9	v10	v11	v12	v13	v14	v15	v16	v17	v18	v19	v20	v21	v22	v23	v24	v25	v26	v27	v28	v29	v30	v31	v32	v33	v34	v35	v36	v37	v38	v39	v40	v4
3	1	1.336	8.727	C	3.921	7.915	2.599	3.177	0.013	10	0.503	16.43	6.086	2.867	11.64	1.355	8.571	3.67	0.107	0.149	18.87	7.731	XDX	-2E-08	C	0.139	1.721	3.394	0.59	8.881	C	A	1.083	1.011	7.27	8.375	11.33	0.455	0	4.012	7.711	7.
4	1		C	9.191		2.302		1.313		6.508		11.64				6.763	GUV		C	3.056																						
5	1	0.944	5.31	C	4.411	5.326	3.98	3.929	0.02	12.67	0.766	14.76	6.385	2.506	9.604	1.984	5.882	3.171	0.245	0.144	18	5.245	FQ	-3E-07	E	0.114	2.245	5.306	0.836	7.5	A	1.454	1.735	4.044	7.959	12.73	0.26	0	7.379	13.08	6.	
6	1	0.797	8.305	C	4.226	11.63	2.098	1.988	0.172	8.966	6.543	16.35	9.647	3.903	14.09	1.945	5.517	3.611	1.224	0.232	18.38	7.517	ACUE	-5E-07	D	0.149	1.308	2.304	8.927	8.875	C	B	1.588	1.667	8.704	8.898	11.3	0.434	0	0.287	11.52	7.
8	1		C							1.05		6.32		11							6.415	HIT		E																		
9	0		C	8.857				0.36		1.05		6.216		11.92							7.351	AYX		A	0.218																	
12	0	0.9	7.313	C	3.494	9.946	1.926	1.77	0.066	5.011	2.341	16.27	7.711	5.916	12.15	1.968	6.602	2.874	0.484	0.444	17.23	6.661	NFD	8E-07	E	0.181	1.07	1.566	4.394	7.928	G	A	1.62	2	3.965	8.735	14	0.549	0	0.032	14.79	7.
21	1		C							1.838		6.424		12.79							7.807	AHW		D																		
22	0	2.079	8.463		3.739	5.266	1.573	2.303	0.016	11.11	4.464	16.05	8.715	2.348	12.6	1.58	6.667	3.052	0.14	0.181	17.75	6.035	GKQ	-4E-07	E	0.059	1.648	3.09	0.759	8.146			1.264	1.348	6.953	8.09	12.75	0.976	0	3.169	12.2	7.
23	1	1.145	5.881	C	3.244	9.538	2.5	1.559	0.413	9.978	2.363	16.09	7.418	4.177	13.79	2.32	5.9	2.769	0.813	0.272	18.41	8.312	PYF	4E-08	C	0.51	1.169	1.411	6.908	9.059	C	A	2.061	2.475	6.499	9.604	14.66	0.794	0	0.075	10.8	6.
24	1		C							1.313		6.528		12.67						7.824	GEH		E																			
27	1		C						1.028		5.988		10.66							5.959	ABQS		D																			
28	0		C						1.313		6.887		12.31							7.457	QKP		E																			
30	1	1.4	5.367	C	4.122	8.137	2.983	2.64	0.212	11	1.816	15.59	6.215	2.861	11.19	2.078	4.53	3.086	1.872	0.176	17.74	5.831	MVD	-9E-07	C	0.059	1.608	3.833	9.602	7.32	B	1.369	1.612	5.091	6.892	12.59	0.573	0	1.602	12.48	6.	
31	1	2.26	14.69	C	5.151	8.554	1.955	2.932	0.041	7.023	1.291	15.84	6.838	3.191	12.6	1.392	5.306	5.949	0.264	0.265	15.16	7.729	QKP	-8E-07	E	0.124	2.144	2.094	2.448	8.621	B	A	1.204	1.71	4.604	9.634	10.78	0.833	0	0.058	12.72	7.
32	1		C						1.313		6.428		11.69							6.921	NKE		E																			
33	1	0.623	7.025	C	4.194	6.288	2.132	3.199	0.408	10.43	1.313	15.55	6.53	3.295	12.69	1.954	8.081	2.659	0.551	0.215	16.3	7.771	NSV	0.044	E	0.287	1.214	4.108	3.808	6.7	G	A	1.616	2.222	2.039	6.846	16.81	0.211	0	1E-06	16.8	6.
34	1		C						1.554		6.779		12.32							6.977			D																			
35	1		C						1.794		6.942		12.29							6.84	ABJD		C																			
36	1		C						3.917		8.5		14.78							8.743	AGDF		C																			
37	1	0.944	5.927	C	4.404	9.045	2.551	2.694	0.086	8.601	3.917	16.28	6.497	3.156	15.61	1.538	5.135	3.555	0.678	0.178	18.73	9.616	IEE	2E-07	C	0.136	1.721	3.133	4.189	8.847	B	1.27	1.51	7.4	8.653	13.16	0.379	0	1.217	10.94	7.	
39	1	1.29	4.789	C	4.283	10.72	3.108	1.962	0.081	8.605	5.23	16.28	9.233	3.507	14.38	1.73	6.731	2.981	0.541	0.248	18.16	8.072	AHGR	5E-07	E	0.14	1.479	1.683	4.291	9.233	G	B	1.658	2.072	9.149	10.7	12.59	0.711	0	0.396	9.497	8.
40	1	0.729	4.073	C	4.13	9.033	4.15	1.917	2.768	6.15	1.313	16	6.961	3.794	13	1.274	5.655	2.58	1.201	0.302	16.39	8.159	WRI	0.412	E	3.111	1.854	3.25	6.511	7.84	A	1.133	1.904	6.432	8.536	15	0.411	0	0.292	9.851	7.	
42	1	3.945	5.719	C	2.205	5.341	2.01	1.657	3.233	8.566	3.917	15.29	8.471	4.507	14.23	2.59	3.806	2.11	0.896	0.365	15.92	8.15	ACLU	20	C	2.134	1.776	1.45	7.017	7.987	D	B	1.992	3.521	9.177	9.723	16.82	2.574	0	0.119	8.131	7.
43	1	4.046	3.993	C	3.598	7.946	1.71	2.366	7.827	9.849	1.028	14.79	6.352	4.148	9.885	2	6.323	2.237	0.909	0.238	16.53	5.274	VZF	0.069	C	7.584	1.968	2.922	6.451	7.197	A	A	1.948	3.857	8.082	7.886	15.36	1.849	0	0.623	6.957	6.
46	1		C						2.254		6.486		12							6.554	ABPH		E																			
51	1		C						1.838		6.75		11.56							6.45	CBS		E																			
52	1	0.292	12.72	C	5	6	2.021	2.62	0.059	8.983	1.028	16.08	6.366	3.035	12.06	1.742	4.667	4.283	0.475	0.184	18.22	7.367	BWJ	6E-07	A	0.106	1.736	2.573	2.707	8.682	C	A	1.255	0.947	7.207	8.208	12.47	0.12	0	3.574	8.34	7.
54	1	0.517	8.529	C	4.075	5.727	2.535	3.644	0.75	6.981	1.291	15.91	6.581	2.805	11.76	1.185	6.78	4.104	0.55	0.16	18.9	6.82	MQE	-5E-07	E	0.546	2.324	2.572	4.586	9.012	A	A	1.034	1.1	4.682	10.46	16.58	0.153	0	5E-07	12.6	7.
55	0	0.2416	15	C	4.357	8.521	2.133	2.024	0.036	7.568	0.788	16.4	6.323	3.479	10.48	1.545	5.789	4.878	0.252	0.225	18.73	6.207	FLR	2E-08	E	0.13	1.596	2.459	1.963	9.097	A	A	1.371	1.654	7.244	8.183	10.81	1.29	0	0.122	8.039	8.
57	1	1.688	6.791	C	5.324	8.627	3.193	3.706	2.244	3.661	2.604	14.17	6.41	4.146	11.78	1.315	5.128	4.747	1.223	0.206	17.63	5.812	IIP	-9E-07	C	1.982	3.272	3.295	7.498	7.771	B	B	0.907	0.889	6.036	6.405	15	0.492	0	0.237	11.78	5.
58	1	1.344	8.407	C	4.465	13	2.529	2.464	0.129	10.21	1.05	16	6.105	3.463	11.64	8.02	6.714	3.56	0.859	0.184	18.67	6.932	BZT	-8E-07	D	0.225	1.479	3.19	5.882	8.401	A	A	1.602	2.035	7.572	8.299	15.17	0.59	0	0.321	7.499	7.
61	1		C						2.845		6.756		10.21						4.435	ADBM		E																				
62	1	1.146	12.79	C	4.418	10.56	1.858	2.735	0.094	10.4	1.554	15.4	7.049	3.107</td																												

ID	target	v1	v2	v3	v4	v5	v6	v7	v8	v9	v10	v11	v12	v13	v14	v15	v16	v17	v18	v19	v20	v21	v22	v23	v24	v25	v26	v27	v28	v29	v30	v31	v32	v33	v34	v35	v36	v37	v38	v39	v40	v4		
3	1	1.336	8.727	C	3.921	7.915	2.599	3.177	0.013	10	0.503	16.43	6.086	2.867	11.64	1.355	8.571	3.67	0.107	0.149	18.87	7.731	XDX	-2E-08	C	0.139	1.721	3.394	0.59	8.881	C	A	1.083	1.011	7.27	8.375	11.33	0.455	0	4.012	7.711	7.		
4	1		C	9.191				2.302		1.313		6.508		11.64								6.763	GUV	C	3.056					C	A		3.615		14.58		0	14.31						
5	1	0.944	5.31	C	4.411	5.326	3.98	3.929	0.02	12.67	0.766	14.76	6.385	2.506	9.604	1.984	5.882	3.171	0.245	0.144	18	5.245	FQ	-3E-07	E	0.114	2.245	5.306	0.836	7.5	A	1.454	1.735	4.044	7.959	12.73	0.26	0	7.379	13.08	6.			
6	1	0.797	8.305	C	4.226	11.63	2.098	1.988	0.172	8.966	6.543	16.35	9.647	3.903	14.09	1.945	5.517	3.611	1.224	0.232	18.38	7.517	ACUE	-5E-07	D	0.149	1.308	2.304	8.927	8.875	C	B	1.588	1.667	8.704	8.898	11.3	0.434	0	0.287	11.52	7.		
8	1		C												1.05		6.32		11				6.415	HIT	E						A			6.083		0	10.14							
9	0		C	8.857					0.36		1.05		6.216		11.92							7.351	AYX	A	0.218					A			7.497		15.5		0	7.904						
12	0	0.9	7.313	C	3.494	9.946	1.926	1.77	0.066	5.011	2.341	16.27	7.711	5.916	12.15	1.968	6.602	2.874	0.484	0.444	17.23	6.661	NFD	8E-07	E	0.181	1.07	1.566	4.394	7.928	G	A	1.62	2	3.965	8.735	14	0.549	0	0.032	14.79	7.		
21	1		C												1.838		6.424		12.79			7.807	AHBW	D						C	A		11.08		0	3.035								
22	0	2.079	8.463		3.739	5.266	1.573	2.303	0.016	11.11	4.464	16.05	8.715	2.348	12.6	1.58	6.667	3.052	0.14	0.181	17.75	6.035	GKQ	-4E-07	E	0.059	1.648	3.09	0.759	8.146			1.264	1.348	6.953	8.09	12.75	0.976	0	3.169	12.2	7.		
23	1	1.145	5.881	C	3.244	9.538	2.5	1.559	0.413	9.978	2.363	16.09	7.418	4.177	13.79	2.32	5.9	2.769	0.813	0.272	18.41	8.312	PYF	4E-08	C	0.51	1.169	1.411	6.908	9.059	C	A	2.061	2.475	6.499	9.604	14.66	0.794	0	0.075	10.8	8		
24	1		C											1.313		6.529		12.67			7.824	GEH	E						D	A		3		0	15.27									
27	1		C											1.028		5.988		10.66			5.959	ABQS	D						G	A		5.125		0	11.63									
28	0		C											1.313		6.887		12.31			7.457	QKP	E						A			6.796		0	9.276									
30	1	1.4	5.367	C	4.122	8.137	2.983	2	64	0.212	11	1.816	15.59	6.215	2.861	11.19	2.078	4.53	3.088	1.872	0.176	17.74	5.831	MVD	-9E-07	C	0.059	1.608	3.833	9.602	7.32	B	1.369	1.612	5.091	6.892	12.59	0.573	0	1.602	12.48	6.		
31	1	2.26	14.69	C	5.151	8.554	1.955	2	932	0.041	7.023	1.291	15.84	6.838	3.191	12.6	1.392	5.306	5.949	0.264	0.265	15.16	7.729	QKP	-8E-07	E	0.124	2.144	2.094	2.448	8.621	B	A	1.204	1.71	4.604	9.634	10.78	0.833	0	0.058	12.72	7.	
32	1		C											1.313		6.428		11.69			6.921	NKE	E						A			2.157		0	16.61									
33	1	0.623	7.025	C	4.194	6.288	2.132	3	199	0.408	10.43	1.313	15.55	6.53	3.295	12.69	1.954	8.081	2.659	0.551	0.215	16.3	7.771	NSV	0.044	E	0.287	1.214	4.108	3.808	6.7	G	A	1.616	2.222	2.039	6.846	16.81	0.211	0	1E-06	16.8	6.	
34	1		C											1.554		6.779		12.32			6.977	D						C	B		6.538		0	9.927										
35	1		C											1.554		6.779		12.32			6.977	D						C	B		8.565		0	6.963										
36	1		C											1.554		6.779		12.32			6.977	D						C	B		7.805		0	10.3										
37	1	0.944	5.927	C	4.404	9.045	2.551	2	694	0.086	8.601	3.917	16.28	6.404	3.156	15.61	1.538	5.135	3.555	0.678	0.178	18.73	9.616	YD	-2E-07	C	0.136	1.72	1.133	4.189	8.847	B	A	1.27	1.51	7.4	8.653	13.16	0.379	0	1.217	10.94	7.	
39	1	1.29	4.789	C	4.283	10.72	3.108	1	962	0.081	8.605	5.23	16.28	9.233	3.507	14.38	1.73	6.731	2.981	0.541	0.248	18.16	8.072	AHGR	5E-07	E	0.14	1.479	1.683	4.291	9.233	G	A	1.658	2.072	9.149	10.7	12.59	0.711	0	0.396	9.497	8.	
40	1	0.729	4.073	C	4.13	9.033	4.15	1.917	2	768	6.15	1.313	16	6.961	3.794	13	1.274	5.655	2.58	1.201	0.302	16.39	8.159	WRI	0.412	E	3.111	1.854	3.25	6.511	7.84	A	A	1.133	1.904	6.432	8.536	15	0.411	0	2.292	9.851	7.	
42	1	3.945	5.719	C	2.205	5.341	2.01	1	657	3.233	8.566	3.917	15.29	8.471	4.507	14.23	2.59	3.806	2.11	0.896	0.365	15.92	8.15	ACLU	20C		2.134	1.776	1.45	7.017	7.987	D	B	1.992	3.521	9.177	9.723	16.82	2.574	0	0.119	8.131	7.	
43	1	4.046	3.993	C	3.598	7.946	1.71	2	366	7.827	9.849	1	028	14.79	6.352	4.148	9.895	2	6.323	2.237	0.909	0.238	16.53	5.274	VZF	0.089	C	7.584	1.968	2.922	6.451	7.197	A	A	1.948	3.857	8.082	7.886	15.36	1.849	0	0.623	6.957	6.
46	1		C											1.554		6.779		12.32			6.977	GEH	E						D	A		6.569		0	10.58									
51	1		C											1.554		6.779		12.32			6.977	GEH	E						D	A		11.36		0	3.574	8.34	7.							
52	1	0.292	12.72	C	5	6	2.021	2	62	0.059	9.863	1.028	16.08	6.404	3.035	12.08	1.742	4.667	4.283	0.473	0.104	18.22	7.367	BWJ	6E-07	A	0.106	1.730	2.573	2.707	8.682	C	A	1.253	0.947	7.207	8.208	12.47	0.12	0	3.574	8.34	7.	
54	1	0.517	8.529	C	4.075	5.727	2.535	3	044	0.75	6.981	1.291	15.91	6.581	2.805	11.76	1.185	6.78	4.104	0.55	0.16	18.9	6.822	MQE	-5E-07	E	0.546	2.324	2.572	4.586	9.012	A	A	1.034	1.14	4.682	10.46	16.58	0.153	0	5E-07	12.6	7.	
55	0	2.416	15	C	4.357	8.521	2.133	2	024	0.036	7.568	0.788	16.4	6.323	3.479	10.48	1.545	5.789	4.878	0.252	0.225	18.73	5.207	FLR	2E-08	E	0.13	1.506	2.459	1.963	9.097	A	A	1.371	1.654	7.244	8.183	10.81	1.29	0	0.122	8.039	8.	
57	1	1.688	6.791	C	5.324	8.627	3.193	3	706	2.244	3.661	2.604	14.17	6.41	4.146	11.78	1.315	5.128	4.747	1.223	0.206	17.63	5.812	IIP	9E-07	C	1.982	3.272	3.295	7.498	7.771	B	B	0.907	0.889	6.036	5.405	15	0.492	0	0.237	11.78	5.	
58	1	1.344	8.407	C	4.465	13	2.529	2	64	0.129	10.21	1.05	16.105	3.463	11.64	1.802	6.714	3.56	0.859	0.184	18.67	5.932	BZT	-8E-07	D	0.225	1.479	3.19	5.882	8.401	A	A	1.602	2.035	7.752	8.299	15.17	0.59	0	0.321	7.499	7.		
61	1		C											1.554		6.779		12.32			6.977	ADG	E						A			10.34		0	5.215									
62	1	1.146	12.79	C	4.418	10.56	1.858	2	735	0.094	10.04	1.05	16.09	6.404	3.035	12.08	1.742	4.667	4.283	0.473	0.104	18.22	7.367	BWJ	6E-07	A	1.553	1.628	5.319	7.752	17.23	0.453	0	1.091	11.85	7.								
63	1		C											1.554		6.779		12.32			6.977	ADG	E						A			10.85		0	3.634									
67	0	2.844	7.962	C	4.372	8.381	2.306	2	877	1.232	11.2	1.05	14.52	6.627	3.757	11.35	2.604	5.613	4.187	1.288	0.18	17.54	6.849	ACOZ	-8E-07	E	0.91	1.882	4.107	7.787	6.939	A	A	1.886	2.778	3.463	6.621	15.59	1.069	0	0.202	14.28	6.	
73	1	1.192	11	C	5.847	9.792	2.802	2	383	0.048	8.176	2.604	15.71	6.864	3.012	13.67	1.826	6.667	7.527	0.416	0.196	18.74	7.956	QSS	-2E-07	C	0.149	2.037	2.351	2.653	9.372	C	B	1.57	1.353	7.34	9.147							

Anonymous data – truly anonymous?

Categorical features – interactions significant?

Missing values – missing at random?

Evaluation metric – objective functions aligned?

LVMH

Christian Dior

LOUIS VUITTON

SEPHORA

The LOGICO logo consists of the word "LOGICO" in a bold, sans-serif font. The letters are primarily blue, except for the letter "i" which has a red and orange gradient.

kaggle™

kaggle™ days

ID	target	v1	v2	v3	v4	v5	v6	v7	v8	v9	v10	v11	v12	v13	v14	v15	v16	v17	v18	v19	v20	v21	v22	v23	v24	v25	v26	v27	v28	v29	v30	v31	v32	v33	v34	v35	v36	v37	v38	v39	v40	v4	
3	1	1.336	8.727	C	3.921	7.915	2.599	3.177	0.013	10	0.503	16.43	6.086	2.867	11.64	1.355	8.571	3.67	0.107	0.149	18.87	7.731	XDX	-2E-08	C	0.139	1.721	3.394	0.59	8.881	C	A	1.083	1.011	7.27	8.375	11.33	0.455	0	4.012	7.711	7.	
4	1		C		9.191				2.302		1.313		6.508		11.64							6.763	GUV	C	3.056																		
5	1	0.944	5.31	C	4.411	5.326	3.98	3.929	0.02	12.67	0.766	14.76	6.385	2.506	9.604	1.984	5.882	3.171	0.245	0.144	18	5.245	FQ	-3E-07	E	0.114	2.245	5.306	0.836	7.5	A	1.454	1.735	4.044	7.959	12.73	0.26	0	7.379	13.08	6.		
6	1	0.797	8.305	C	4.226	11.63	2.098	1.988	0.172	8.966	6.543	16.35	9.647	3.903	14.09	1.945	5.517	3.611	1.224	0.232	18.38	7.517	ACUE	-5E-07	D	0.149	1.308	2.304	8.927	8.875	C	B	1.588	1.667	8.704	8.898	11.3	0.434	0	0.287	11.52	7.	
8	1		C							1.05		6.32		11							6.415	HIT	E																				
9	0		C	8.857					0.36		1.05		6.216		11.92						7.351	AYX	A	0.218																			
12	0	0.9	7.313	C	3.494	9.946	1.926	1.77	0.066	5.011	2.341	16.27	7.711	5.916	12.15	1.968	6.602	2.874	0.484	0.444	17.23	6.661	NFD	8E-07	E	0.181	1.07	1.566	4.394	7.928	G	A	1.62	2	3.965	8.735	14	0.549	0	0.032	14.79	7.	
21	1		C								1.838		6.424		12.79						7.807	AHW	D																				
22	0	2.079	8.463		3.739	5.266	1.573	2.303	0.016	11.11	4.464	16.05	8.715	2.348	12.6	1.58	6.667	3.052	0.14	0.181	17.75	6.035	GKQ	-4E-07	E	0.059	1.648	3.09	0.759	8.146			1.264	1.348	6.953	8.09	12.75	0.976	0	3.169	12.2	7.	
23	1	1.145	5.881	C	3.244	9.538	2.5	1.559	0.413	9.978	2.363	16.09	7.418	4.177	13.79	2.32	5.9	2.769	0.813	0.272	18.41	8.312	PYF	4E-08	C	0.51	1.169	1.411	6.908	9.059	C	A	2.061	2.475	6.499	9.604	14.66	0.794	0	0.075	10.8	6.	
24	1		C							1.313		6.529		12.67						7.821	GEW	E																					
27	1		C								1.028		5.988		10.66						5.959	ABQS	D																				
28	0		C								1.313		6.887		12.31						7.457	QKP	E																				
30	1	1.4	5.367	C	4.122	8.137	2.983	2.64	0.212	11	1.816	15.59	6.215	2.861	11.19	2.078	4.53	3.086	1.872	0.176	17.74	5.831	MVD	-9E-07	C	0.059	1.608	3.833	9.602	7.32	B	1.369	1.612	5.091	6.892	12.59	0.573	0	1.602	12.48	6.		
31	1	2.26	14.69	C	5.151	8.554	1.955	2.932	0.041	7.023	1.291	15.84	6.838	3.191	12.6	1.392	5.306	5.949	0.264	0.265	15.16	7.729	QKP	-8E-07	E	0.124	2.144	2.094	2.448	8.621	B	A	1.204	1.71	4.004	9.634	10.78	0.833	0	0.058	12.72	7.	
32	1		C								1.313		6.428		11.69						6.921	NKE	E																				
33	1	0.623	7.025	C	4.194	6.288	2.132	3.799	0.408	10.43	1.313	15.55	6.53	3.295	12.69	1.954	8.081	2.659	0.551	0.215	16.3	7.771	NSV	0.044	E	0.287	1.214	4.108	3.808	6.7	G	A	1.616	2.222	2.039	6.846	16.81	0.211	0	1E-06	16.8	6.	
34	1		C								1.554		6.779		12.32						6.977	D																					
35	1		C								1.794		6.942		12.29						6.84	ABJD	C																				
36	1		C								3.917		8.5		14.78						8.743	AGDF	C																				
37	1	0.944	5.927	C	4.404	9.045	2.551	2.094	0.086	8.601	3.917	16.28	6.497	3.156	15.61	1.538	5.135	3.555	0.678	0.178	18.73	9.616	IEE	2E-07	C	0.136	1.721	3.133	4.189	8.847	B	1.27	1.51	7.4	8.653	13.16	0.379	0	1.217	10.94	7.		
39	1	1.29	4.789	C	4.283	10.72	3.108	1.962	0.081	8.605	5.23	16.28	9.233	3.055	14.38	1.73	6.731	2.981	0.541	0.248	18.16	8.072	AHGR	5E-07	E	0.14	1.479	1.683	4.291	9.233	G	B	1.658	2.072	9.149	10.7	12.59	0.711	0	0.396	9.497	8.	
40	1	0.729	4.073	C	4.13	9.033	4.15	1.917	2.768	6.15	1.313	16	6.961	3.794	13	1.274	5.655	2.58	1.201	0.302	16.39	8.159	WRJ	0.412	E	3.111	1.854	3.25	6.511	7.84	A	1.133	1.904	6.432	8.536	15	0.411	0	0.229	9.851	7.		
42	1	3.945	5.719	C	2.205	5.341	2.01	1.057	3.233	8.566	3.917	15.29	8.471	4.507	14.23	2.59	3.806	2.11	0.896	0.365	15.92	8.15	ACLU	20	C	2.134	1.776	1.45	7.017	7.987	D	B	1.992	3.521	9.177	9.723	16.82	2.574	0	0.119	8.131	7.	
43	1	4.046	3.993	C	3.598	7.946	1.71	2.366	7.827	9.849	1.79	17.79	6.352	4.148	9.895	1.023	2.244	3.661	2.204	1.763	5.63	5.812	IIP	9E-07	C	1.948	3.857	8.082	7.886	15.36	1.849	A	0.907	8.889	6.036	5.405	15	0.492	0	0.237	11.78	5.	
46	1		C								4.465		13	2.529	2.64	0.129	10.211	1.41	0.129	0.149	18.4	8.034	ST	80																			
51	1		C								2.079		6.635		10.49						3.753	KFE	E																				
52	1	0.292	12.72	C	5	6	2.021	2	62	0.059	8.983	1.028	16.08	6.366	3.035	12.06	1.742	4.667	4.283	0.475	0.184	18.22	7.367	BWJ	6E-07	A	0.106	1.736	2.573	2.707	8.682	C	A	1.255	0.947	7.207	8.208	12.47	0.12	0	0.3574	8.34	7.
54	1	0.517	8.529	C	4.075	5.727	2.535	3.044	0.75	6.981	1.291	15.91	6.581	2.805	11.76	1.185	6.78	4.104	0.55	0.16	18.9	6.82	MQE	-5E-07	E	0.546	2.324	2.572	4.586	9.012	A	1.034	1.1	4.682	10.46	16.58	0.153	0	0.5E-07	12.6	7.		
55	0	0.2416	15	C	4.357	8.521	2.133	2.024	0.036	7.568	0.788	16.4	6.323	3.479	10.48	1.545	5.789	4.878	0.252	0.225	18.73	6.207	FLR	2E-08	E	0.13	1.596	2.459	1.963	9.097	A	1.371	1.654	7.244	8.183	10.81	1.29	0	0.122	8.039	8.		
57	1	1.688	6.791	C	5.324	8.627	3.193	3.706	2.244	6.604	14.17	6.41	4.146	11.78	1.315	5.128	4.747	1.223	2.026	17.63	5.812	IIP	9E-07	C	1.982	3.272	3.295	7.498	7.771	B	A	0.907	8.889	6.036	5.405	15	0.492	0	0.237	11.78	5.		
58	1	1.344	8.407	C	4.465	13	2.529	2.64	0.129	10.211	1.41	18.4	8.034	8.401	1.023	1.419	1.49	0.129	0.149	18.4	8.034	ST	80	A	1.602	2.035	7.52	8.299	15.17	0.59	0	0.321	7.499	7.									
61	1		C								2.079		6.635		10.49						3.753	KFE	E																				
62	1	1.146	12.79	C	4.418	10.56	1.858	2.735	0.094</td																																		

Noisy data

ID	v22	v40	v50	target
4103	KTD	8.441	0.728	NA
9238	KTD	13.892	1.407	NA
24969	KTD	9.402	0.120	1
29397	ZK	12.931	0.954	NA
49522	KTD	8.214	0.267	0
52224	KTD	8.585	1.020	0
54369	KTD	11.595	0.872	NA
55115	ZK	12.562	0.205	0
56219	ZK	12.562	0.205	0
60139	AACT	12.188	0.381	0
78886	KTD	13.702	1.023	1
80723	ZK	12.476	0.031	NA
84866	AACT	12.605	1.227	NA
96591	KTD	9.107	0.712	1
110920	KTD	9.030	1.924	1
112241	ZK	8.595	1.564	1
132173	ZK	7.208	0.646	1
148884	ZK	12.820	0.728	NA
153984	AACT	12.421	0.854	0
157144	ZK	12.817	0.722	NA
178049	KTD	2.700	0.158	1
190962	KTD	13.892	1.982	0
200637	AACT	12.421	0.854	NA
206002	KTD	8.583	1.015	0
206490	AACT	12.547	1.109	1
215715	AACT	12.485	0.985	0
225147	ZK	12.698	0.481	NA

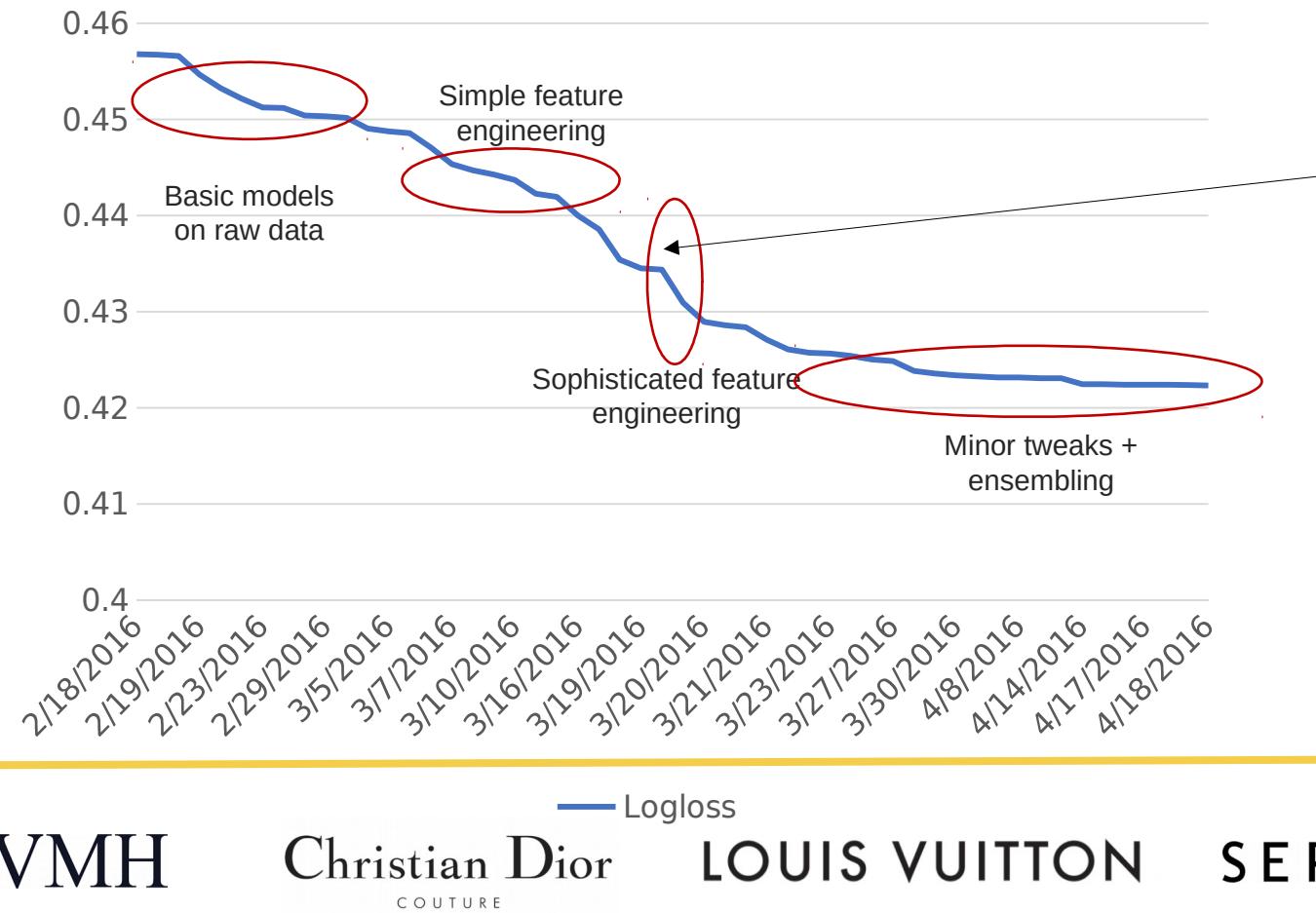
Data un-scaling

ID	v22	v40	v50	v40-v50	target
4103	KTD	11666	496	11170	NA
9238	KTD	19200	959	18241	NA
24969	KTD	12995	82	12913	1
29397	ZK	17872	650	17222	NA
49522	KTD	11352	182	11170	0
52224	KTD	11865	695	11170	0
54369	KTD	16025	594	15431	NA
55115	ZK	17362	140	17222	0
56219	ZK	17362	140	17222	0
60139	AACT	16845	260	16585	0
78886	KTD	18938	697	18241	1
80723	ZK	17243	21	17222	NA
84866	AACT	17421	836	16585	NA
96591	KTD	12587	485	12102	1
110920	KTD	12481	1311	11170	1
112241	ZK	11879	1066	10813	1
132173	ZK	9962	440	9522	1
148884	ZK	17718	496	17222	NA
153984	AACT	17167	582	16585	0
157144	ZK	17714	492	17222	NA
178049	KTD	3732	108	3624	1
190962	KTD	19200	1351	17849	0
200637	AACT	17167	582	16585	NA
206002	KTD	11862	692	11170	0
206490	AACT	17341	756	16585	1
215715	AACT	17256	671	16585	0
225147	ZK	17550	328	17222	NA

Arrange data

ID	v22	v40	v50	v40v50	target	lag target	lead target
60138	AACT	16845	260	16585	0	NA	0
153983	AACT	17167	582	16585	0	0	0
200636	AACT	17167	582	16585	NA	0	0
215714	AACT	17256	671	16585	0	0	1
206489	AACT	17341	756	16585	1	0	NA
84865	AACT	17421	836	16585	NA	1	NA
49521	KTD	11352	182	11170	0	NA	0
4102	KTD	11666	496	11170	NA	0	0
206001	KTD	11862	692	11170	0	0	0
52223	KTD	11865	695	11170	0	0	1
110919	KTD	12481	1311	11170	1	0	NA
CUSTOMER		485	12102	1			
543	CLAIM DATE	836	15431	NA			
1909		1	17849				
FEATURES CAPTURE							
TARGET TREND							
DAYS SINCE CONTRACT							
178048	KTD			CONTRACT START DATE			
112240	ZK						
80722	ZK	17243	21	17222	NA	NA	0
55114	ZK	17362	140	17222	0	0	0
56218	ZK	17362	140	17222	0	0	NA
225146	ZK	17550	328	17222	NA	0	NA
157143	ZK	17714	492	17222	NA	0	NA
148883	ZK	17718	496	17222	NA	0	NA
29396	ZK	17872	650	17222	NA	0	NA
132172	ZK	9962	440	9522	1		

Rule of thumb: data first, ML later



Competitors brute
forced with hundreds of
likelihood features

Kaggle friend



Davut Polat



Santander Customer Satisfaction

Which customers are happy customers?

\$60,000 · 5,123 teams · 3 years ago

[Overview](#) [Data](#) [Kernels](#) [Discussion](#) [Leaderboard](#) [Rules](#) [Team](#)

My Submissions

Late Submission

Public Leaderboard

Private Leaderboard

The private leaderboard is calculated with approximately 50% of the test data.



This competition has completed. This leaderboard reflects the final standings.

 In the money Gold Silver Bronze

#	△pub	Team Name	Kernel	Team Members	Score	Entries	Last
1	▲ 3	Shize & Nir			0.829072	298	3y
2	▲ 848	kg_joi			0.829062	35	3y
3	▲ 6	#1 Leustagos		 +8	0.828530	227	3y
4	▲ 1	Why so noise?			0.828466	195	3y
5	▲ 2024	Michael Hartman			0.828346	22	3y
6	▲ 229	Noah Xiao @ Accenture			0.828342	44	3y



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Santander Customer Satisfaction

Which customers are happy customers?

\$60,000 · 5,123 teams · 3 years ago

Overview Data Kernels Discussion Leaderboard Rules Team

My Submissions

Late Submission

Public Leaderboard

Data extremely imbalanced (4%)

The private leaderboard is calculated with approximately 50% of the test data.

This competition has completed. The private leaderboard selects the final standings.

 Refresh

 In the money  Gold  Silver  Bronze

Noisy features

#	△pub	Team Name	Kernel	Team Members	Score	Entries	Last
1	▲ 3	Shize & Nir			0.829072	298	3y
2	▲ 848	kg_joi			0.829062	35	3y
3	▲ 6	#1 Leustagos		 +8	0.828530	227	3y
4	▲ 1	Why so serious			0.828366	195	3y
5	▲ 2024	Michael Hartman			0.828346	22	3y
6	▲ 229	Noah Xiao @ Accenture			0.828342	44	3y

AUC metric

No signs of any CV – LB correlation

Approach:

- 5-fold CV; repeated 20 different CV splits
- Models bagged 20 times
- Killer feature - binary feature of new/existing client (5 feature combo)
- Blending using weights by optim
- Too conservative with optim... best iteration results #1 on private
- Optimal approach for small competitions! (Mercedes, NCAA, ...)



Predicting Red Hat Business Value

Classify customer potential

\$50,000 · 2,271 teams · 2 years ago



■ In the money ■ Gold ■ Silver ■ Bronze

#	△pub	Team Name	Kernel	Team Members	Score	Entries	Last
1	—	raddir			0.995124	169	2y
2	—	Victor			0.994862	220	2y
3	—	Joshua Havelka			0.994595	182	2y
4	—	menny			0.994009	84	2y
5	—	No Hat			0.993830	28	2y
6	—	Mickey			0.993813	183	2y
7	—	A Series Of Unlikely Explanati...			0.993720	98	2y
8	—	idle_speculation			0.993573	6	2y

[xgboost36_final3.csv](#)

2 years ago by raddir

[add submission details](#)

0.995124

0.995097

Best LB + best CV

[xgboost36_final22.csv](#)

2 years ago by raddir

[add submission details](#)

0.994876

0.994839

Best single model LB

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Grandmaster title

Disappointing :(

Huge data leak

Features using future info

Leaderboard probing
(top4)



probeN58.csv	2 years ago by raddar	add submission details	0.500125	0.500116
probeN57.csv	2 years ago by raddar	add submission details	0.499807	0.499722
probeN56.csv	2 years ago by raddar	add submission details	0.500266	0.500189
probeN55.csv	2 years ago by raddar	add submission details	0.500260	0.500202
probeN54.csv	2 years ago by raddar	add submission details	0.499742	0.499801
probeB5.csv	2 years ago by raddar	add submission details	0.500435	0.500334
probeB4.csv	2 years ago by raddar	add submission details	0.500483	0.500647
probeB3.csv	2 years ago by raddar	add submission details	0.499232	0.499271
probeB2.csv	2 years ago by raddar	add submission details	0.499210	0.499383
probeB1.csv	2 years ago by raddar	add submission details	0.499131	0.499085

Probing...

Submit all 0,
except some rows 1

If submission
 $AUC > 0.5$ - “1”

If submission
 $AUC < 0.5$ - “0”

Last 18 months or so ...

2 appearances on the radio about Kaggle
presentations and paper reviews in leading companies
(Neurotechnology, Vinted)

- AI hackathon (mentor)
- monthly AI meetups (200-400 people)
- Kaggle very hot conversational topic
- Founder Lithuania AI association



The Nature Conservancy Fisheries Monitoring

Can you detect and classify species of fish?
\$150,000 · 389 teams · 2 years ago

#1

#	△pub	Team Name	Kernel	Team Members	Score	Entries
1	▲ 48	Towards Robust-Optimal Lear...			1.06234	2
2	▲ 29	Liu			1.08991	5
3	▲ 8	clsfishbetter			1.13906	5
4	▲ 3	Chicken of the Sea			1.18817	19
5	▼ 1	SYSU_HCPLab			1.23099	14
6	▲ 3	Alpha Fish			1.23572	2
7	▼ 2	bestfitting			1.24218	3
8	▼ 5	Felix Yu			1.24416	2

Class imbalance

Proper validation

Manual annotations

Faster R-CNN superior

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Featured Prediction Competition

Intel & MobileODT Cervical Cancer Screening

Which cancer treatment will be most effective?

Intel · 261 teams · 2 years ago

\$100,000 Prize Money

#	△pub	Team Name	Kernel	Team Members	Score	Entries	Last
1	▲ 125	Towards Empirically Stable Tr...			0.76963	2	2y
2	▲ 114	I Rustandi			0.80277	8	2y
3	▲ 79	GRXJ			0.80829	5	2y
4	▲ 94	Ruslan Baikulov			0.81808	4	2y
5	▲ 73	BMCI			0.82205	5	2y
6	▲ 80	kubilai			0.82495	26	2y
7	▲ 124	Shai			0.82849	2	2y
8	▲ 93	Ryan Munion			0.83130	3	2y
9	▲ 78	ZFTurbo			0.83208	2	2y
10	▲ 134	Alexander Popov			0.83333	19	2y
11	▲ 136	mokp			0.83367	2	2y

7 day effort

No changes in pipeline

Manual annotations

Proper augmentations

Reuse stage1 for
stage2!

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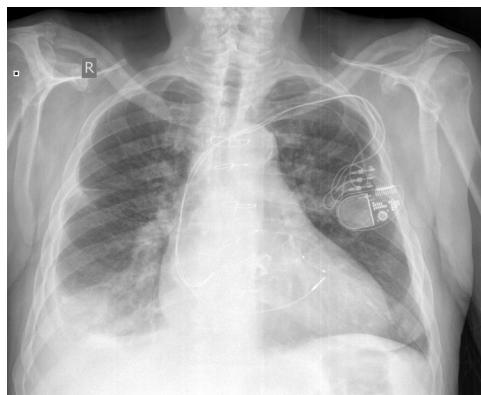
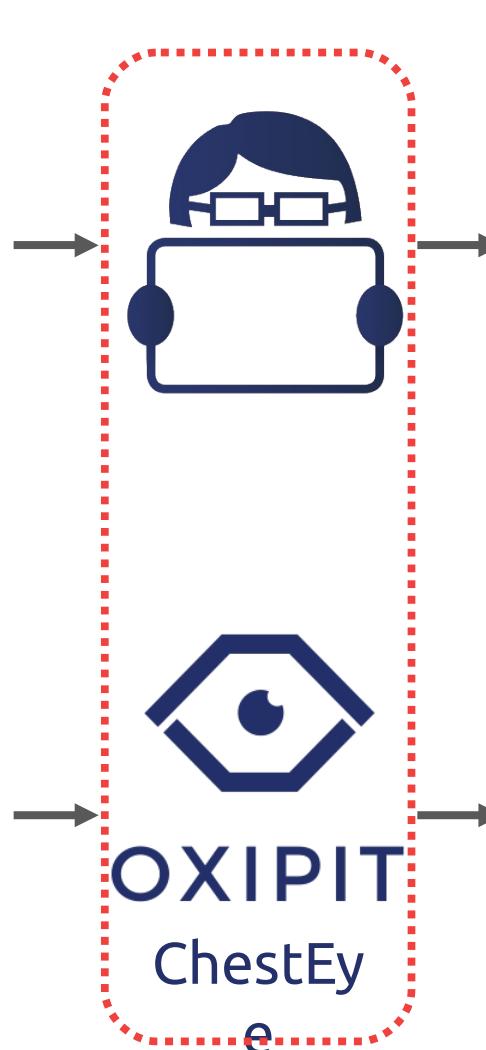
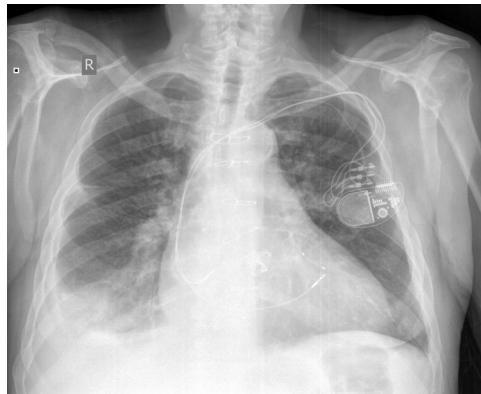
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Take-aways:

- Classification task to detection if possible
- NN architecture selection (ImageNet not a good benchmark)
- Refine the data
- Augmentations – avoid nonsense
- Validation – random split not always a good idea
- Use of pretrained? Test if possible



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Generate report

Fibrosis

Pleural Adhesion

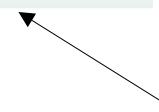
Pulmonary Emphysema

Tuberculosis

Hilar Prominence

Pleural Thickening

Pleural Plaque



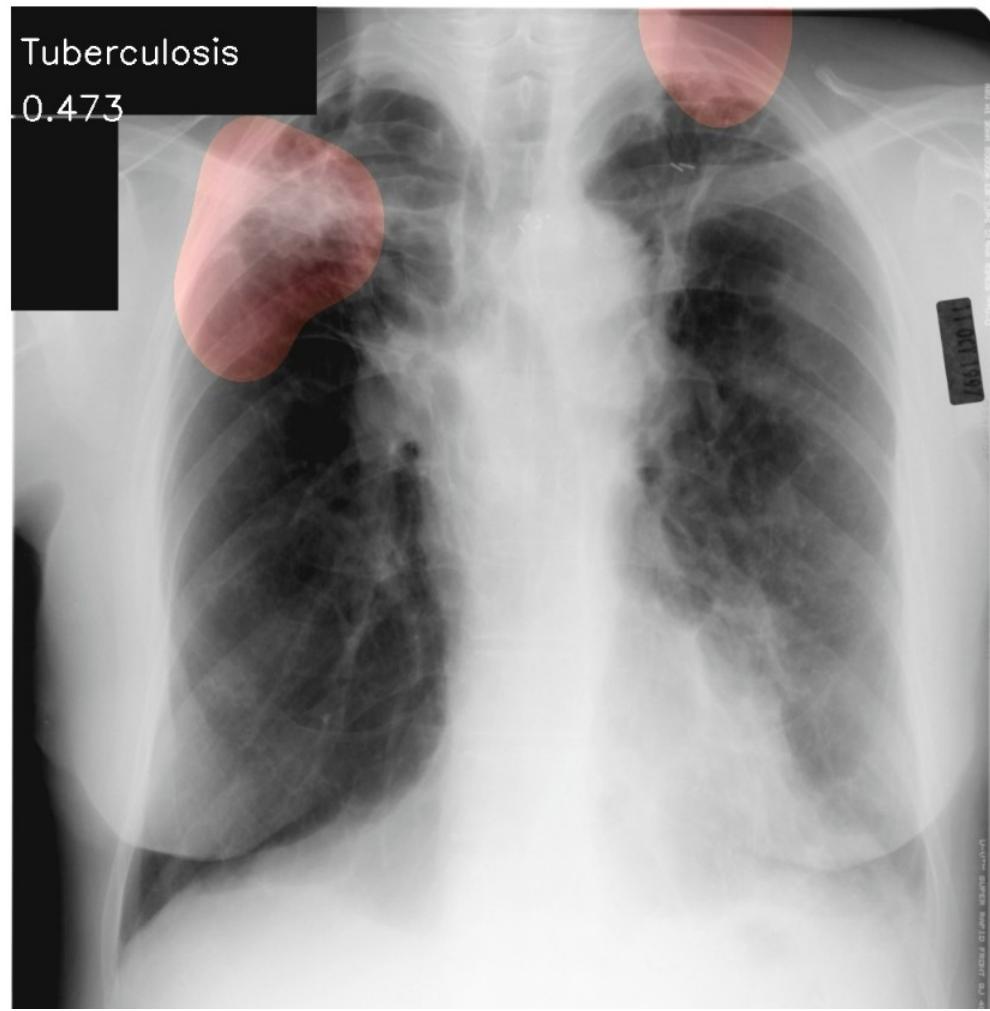
Multi-label classification (76 class)

Training - NLP problem:
all info in radiology reports

Inception, DenseNet, NASNet,
VGG, ResNet... ???

average AUC 0.93

Detection problem? Expensive!

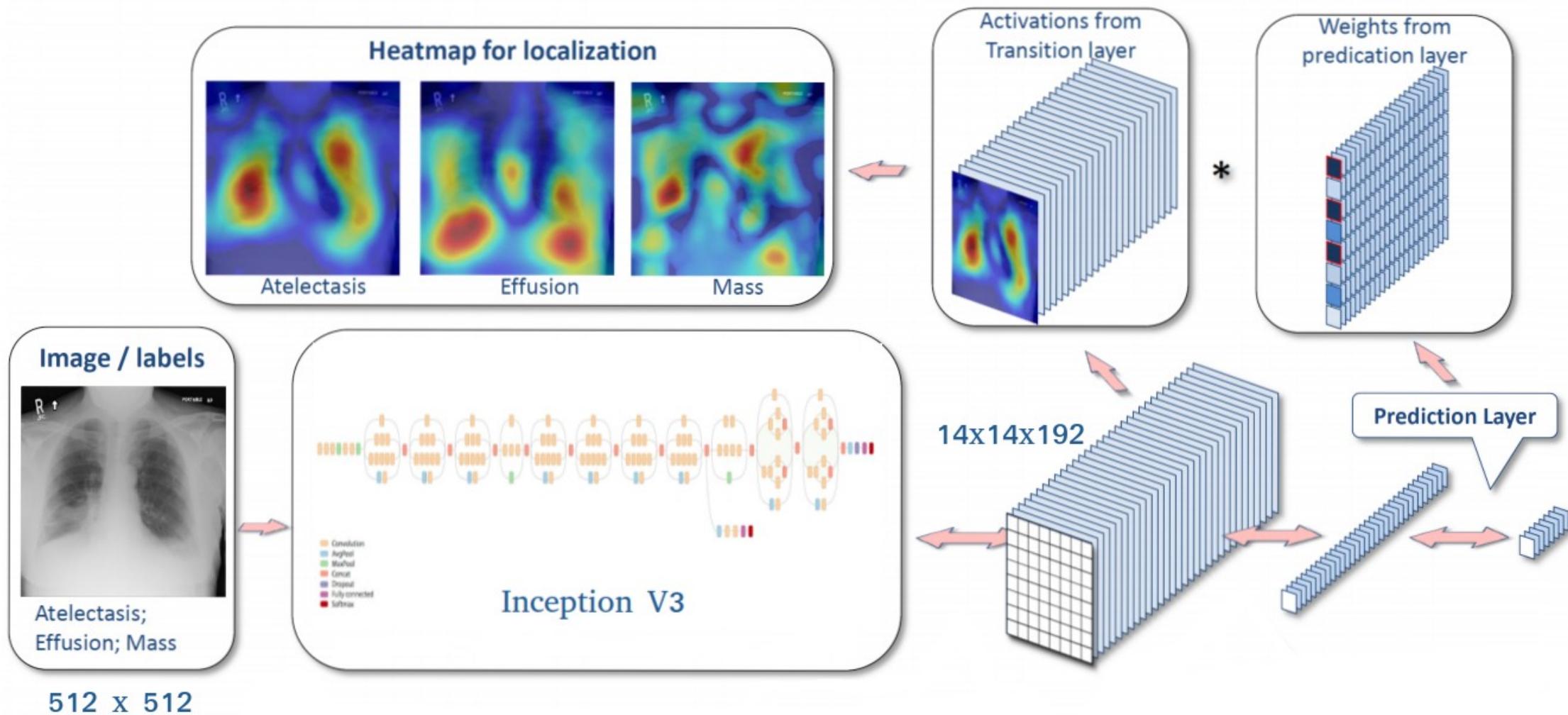


Black box?
Class activation maps!

Major selling point

Need to build trust in AI

Building models: easier task
than selling



Upload

Upload dicom/jpg/png file

Browse... long-report.png Upload complete

Browse... Same patient lateral image

Leave us a comment

Automated diagnostics Similar cases in local database Similar cases in open datasets

Score: **6.7**

1 2 3 4 5 6 7 8 9 10

Pulmonary Atelectasis (upper lobe/left);
Cysts (lung/upper lobe/left);
Thickening (pleura/apex/left);
Cicatrix (lung/upper lobe/left);
Tuberculosis (lung/healed)

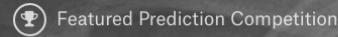
The left hilum is retracted superiorly.
In the collapsed left upper lobe are stranding and pneumatoceles.
Additionally, pleural thickening is present in the left apex.
No infiltrates are present in the left lower lobe or in the right lung.
Heart size is normal.
These findings are similar to the previous outside examination.

Stable left upper lobe collapse associated with parenchymal scarring and pleural thickening.
Findings consistent with previous active pulmonary tuberculosis pneumonia.

Case courtesy of Kohli MD, Rosenman M (Indiana University), [openi.nlm.nih.gov](#). From the case id: CXR1160

More images from this case:
<< >>



RSNA Pneumonia Detection Challenge

Can you build an algorithm that automatically detects potential pneumonia cases?

 Radiological Society of North America · 346 teams · 2 months ago

\$30,000
Prize Money



19	▲ 33	Azat Davletshin		0.21758	5	3mo
20	▲ 130	Formosan Black Bear		0.21755	11	3mo
21	▲ 35	Wenbo Qi & Xiaoyang Chen & ...		0.21734	4	3mo
22	▲ 216	TigerDuck		0.21729	1	3mo
23	▼ 17	WwbB		0.21599	24	2mo
24	▲ 100	Sungbin Choi		0.21232	1	3mo
25	▲ 98	don't know		0.21085	2	2mo
26	▲ 226	Pon De Ring		0.20796	1	3mo
27	▲ 45	Tim H		0.20758	2	3mo
28	▲ 239	oxipit.ai		0.20703	1	2mo
29	▲ 75	WAIR		0.20601	14	2mo
30	▼ 28	IMVY [ods.ai]		0.20460	4	2mo
31	▲ 140	MI2RL		0.20353	14	2mo
32	▲ 126	VFA		0.20312	2	3mo
33	▲ 27	fakedoctor		0.20285	9	2mo
34	▲ 64	[ods.ai] Alex Parinov		0.20214	1	3mo
35	▲ 44	KAGGLE		0.20150	2	3mo

Mix of RetinaNet, YOLOv3 & Mask R-CNN

Did not collect feedback from leaderboard (mistake)

What if we did? 3rd place...

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I can buy anything that I want, basically.
But I can't buy time.
I better be careful with it.
There is no way I will be able to buy more time.

Warren Buffett

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