























Step	AUC	Logloss Learn	Logloss Test	Precision Learn	Precision Test
0		_	_	0.985628009	
1				0.985933781	
2				0.985933781	0.986142755
3				0.985932708	
4				0.98577714	
5				0.986790895	
6		0.110068254		0.986674547	
7				0.986343861	
8				0.986388445	0.987302721
9				0.987360179	0.988020718
10				0.987178504	
11				0.987255931	0.988030493
12				0.987024724	
13		0.053619441		0.987103105	0.987852395
14				0.986951411	
15		0.047857177		0.986836433	
16				0.985760689	0.986698031
17				0.985761225	0.987146974
18				0.985877454	
19				0.985613227	
20		0.039533608		0.985421121	0.986440063
21				0.985267103	
22				0.985267699	0.986796916
23				0.985229194	
24				0.985267699	0.986796916
25				0.985883534	
26				0.985922098	
27		0.034828074		0.986192584	0.987155139
28				0.986231148	
29				0.986232817	
30				0.98634851	-
31				0.986117601	
32				0.986464798	
33				0.986851394	
34				0.987005889	
35				0.987044513	
36				0.987083137	
37				0.987083137	
38				0.987044513	
39				0.987121761	
40				0.987121761	
41				0.987160444	
42				0.987160444	
43				0.987121761	
44	0.998511136	0.031561747	0.031374123	0.987199068	0.988226771

45	0.998519421	0.031409428	0.031237347	0.987161934	0.988225698
46	0.99851954	0.031334247	0.031208118	0.987316489	0.988315225
47	0.998519719	0.031241199	0.031162977	0.987509787	0.988315225
48	0.998519659	0.031174373	0.031134838	0.987471104	0.988404751
49	0.998509705	0.030725218	0.030696921	0.987856448	0.989031911
50	0.998618782	0.030387683	0.030410729	0.988049507	0.989121556
51	0.998635471	0.030250825	0.03030704	0.98808825	0.989121556
52	0.998645604	0.030180706	0.030247319	0.98808825	0.98912257
53	0.998648942	0.030119285	0.030224502	0.98808825	0.98912257
54	0.99864924	0.030057302	0.030202983	0.988165677	0.989212215
55	0.998638451	0.029415818	0.029667052	0.988165677	0.988762021
56	0.998638451	0.029363709	0.029650906	0.988165677	0.988762021
57	0.998645008	0.029311169	0.029634103	0.98820442	0.988762021
58	0.998645306	0.029244553	0.029604482	0.988165677	0.988762021
59	0.998643041	0.028938664	0.029373743	0.988320112	0.988763034
60	0.998662889	0.02888657	0.02935298	0.988281429	0.988763034
61	0.998653233	0.028677346	0.029173799	0.988514304	0.989211261
62	0.99865365	0.028621262	0.029136373	0.988514304	0.989211261
63	0.99865365	0.028573772	0.029135626	0.988514304	0.989211261
64	0.998653769	0.028495552	0.029085932	0.988553047	0.989210248
65	0.998653769	0.028445991	0.029078418	0.98859179	0.989210248
66	0.998653471	0.028388603	0.029058395	0.988630593	0.989210248
67	0.998661101	0.028276287	0.028988507	0.988940299	0.990018129
68	0.998721063	0.028055009	0.028826352	0.989018321	0.990018129
69	0.998721063	0.028007608	0.02882012	0.989057124	0.990018129
70	0.998721004	0.027954092	0.028820084	0.989134669	0.990018129
71	0.9987607	0.027776917	0.028678501	0.988979936	0.989928305
72	0.998760104	0.027676908	0.028583053	0.989134669	0.990108013
73	0.998765111	0.027623674	0.028558748	0.989134669	0.990108013
74	0.998779714	0.027153092	0.028175531	0.989133835	0.990197837
75	0.998836577	0.02690009	0.027968137	0.98905623	0.990196943
76	0.99882555	0.026644422	0.027770918	0.989289522	0.990287721
77	0.99882549	0.026606223	0.02777102	0.989328325	0.990287721
78	0.998826385	0.026559804	0.027743924	0.98940593	0.990287721
79	0.99882561	0.026420893	0.027672213	0.989794314	0.990466654
80	0.998825312	0.026370671	0.027672084	0.989833176	0.990466654
81	0.998825788	0.026322372	0.027640173	0.989794314	0.990466654
82	0.998826027	0.026278939	0.027623188	0.989833176	0.990466654
83	0.998841941	0.026074994	0.027487438	0.989872038	0.99037677
84	0.998841941	0.026029991	0.027487131	0.989872038	0.99037677
85	0.998865604	0.025875101	0.027379327	0.989872038	0.99037677
86	0.998879611	0.025582703	0.027151164	0.989949763	0.99037677
87	0.998879552	0.02553883	0.027149837	0.989988625	0.99037677
88	0.998880446	0.025502251	0.027142057	0.990027487	0.99037677
89	0.998893201	0.025207855	0.026923347	0.990027487	0.989838481
90	0.998908162	0.025059275	0.026843585	0.990182996	0.990287721
91	0.99891454	0.02498024	0.026772317	0.990299642	0.990467548

92	0.998938799	0.024793606	0.026606908	0.990338564	0.990556598
93	0.998953164	0.024607766	0.026487306	0.990338564	0.990555763
94	0.998953044	0.024574298	0.026487594	0.990338564	0.990555763
95	0.998953044	0.024477575	0.026457494	0.99041748	0.990644872
96	0.998966455	0.024403125	0.026422875	0.99041748	0.990644872
97	0.998977661	0.02437664	0.026402965	0.99041748	0.990644872
98	0.998977602	0.024350164	0.0264036	0.99041748	0.990644872
99	0.998981953	0.024189454	0.026249832	0.990495265	0.990644872
100	0.998979688	0.024144907	0.026232477	0.990495265	0.990644872
101	0.999015689	0.023922071	0.026094276	0.990534186	0.990554035
101	0.999015689	0.023922071	0.026094416	0.990534186	0.990554035
103	0.999080777	0.023781514	0.025982356	0.990573049	0.990554035
104	0.999080777	0.023743972	0.025976745	0.99061197	0.990554035
105	0.999078572	0.023606785	0.025905358	0.990611613	0.990554035
106	0.999078989	0.02358097	0.025890909	0.990611613	0.990554035
107	0.99907887	0.023547826	0.025885602	0.990650535	0.990554035
108	0.999082744	0.023520203	0.025874766	0.990650535	0.990554035
109	0.999082744	0.023495669	0.025874864	0.990650535	0.990554035
110	0.99908632	0.023342438	0.025776716	0.990650535	0.9905532
111	0.999093056	0.023318177	0.025758306	0.990650535	0.9905532
112	0.999092937	0.023293987	0.025759177	0.990650535	0.9905532
113	0.999092937	0.023269162	0.025759293	0.990650535	0.9905532
114	0.999093175	0.023212278	0.025729459	0.9907673	0.990643144
115	0.999107361	0.023082564	0.025639476	0.990884066	0.990643144
116	0.999107122	0.023038341	0.025638595	0.990923047	0.990643144
117	0.999120533	0.022905938	0.025519349	0.990923047	0.990643144
118	0.999121249	0.022832513	0.025490424	0.990923047	0.990643144
119	0.999123335	0.022806199	0.025480371	0.990923047	0.990643144
120	0.999127567	0.022763824	0.025463587	0.990923047	0.990733147
121	0.999127567	0.022739468	0.025463698	0.990923047	0.990733147
122	0.999127567	0.022704303	0.025463749	0.990961969	0.990733147
123	0.999128878	0.022679299	0.025454076	0.991000891	0.990733147
124	0.999128878	0.022655644	0.025454164	0.991000891	0.990733147
125	0.999126911	0.02258366	0.025439311	0.991000891	0.990733147
126	0.999126852	0.022559857	0.025444072	0.991000891	0.990733147
127	0.999126852	0.022536423	0.025444148	0.991000891	0.990733147
128	0.999141037	0.02242912	0.025391567	0.991000891	0.990823209
129	0.999141097	0.022391038	0.025362168	0.991039872	0.990823209
	0.999170721	0.022391038	0.025208939	0.991039872	0.990823209
130					
131	0.999170899	0.022227708	0.025200883	0.991039872	0.990823209
132	0.999170899	0.022203088	0.025200965	0.991039872	0.990823209
133	0.999172151	0.022101821	0.025147386	0.991078794	0.990733147
134	0.999172151	0.022078257	0.025147459	0.991078794	0.990733147
135	0.999172032	0.022056252	0.025147703	0.991078794	0.990733147
136	0.999171972	0.022032406	0.025148522	0.991078794	0.990733147
137	0.999171972	0.022009728	0.025149828	0.991078794	0.990733147
138	0.999171972	0.02198842	0.025149882	0.991078794	0.990733147

139	0.999171734	0.021952001	0.025141599	0.991078794	0.990733147
140	0.99917531	0.021803809	0.025000582	0.991078794	0.990733147
141	0.999182999	0.021780172	0.024982681	0.991078794	0.990733147
142	0.99918288	0.021757856	0.024982894	0.991078794	0.990733147
143	0.999187708	0.021737089	0.024973888	0.991078794	0.990733147
144	0.999187708	0.021715339	0.02497389	0.991078794	0.990733147
145	0.999187231	0.021692719	0.024975395	0.991078794	0.990733147
146	0.999184906	0.021634607	0.024937632	0.991117775	0.990733147
147	0.999185324	0.021612963	0.024930373	0.991117775	0.990733147
148	0.999184191	0.021498663	0.024856409	0.991117775	0.990733147
149	0.999184072	0.021467049	0.024847982	0.991117775	0.990733147
150	0.999185681	0.021445092	0.024831712	0.991117775	0.990733147
151	0.99919349	0.02133302	0.024764411	0.991156697	0.990733147
152	0.99919647	0.021256562	0.024658492	0.991195679	0.990733147
153	0.999196231	0.021235615	0.024661936	0.991195679	0.990733147
154	0.999196947	0.021233013	0.024554944	0.991351545	0.990823209
155	0.999196887	0.021123538	0.024550026	0.991351545	0.990823209
156	0.999199748	0.021102043	0.024396446	0.991467416	0.990912378
157	0.99922204	0.020311332	0.024330440	0.991545439	0.990912378
158	0.999218762	0.020737180	0.024211193	0.991545459	0.990912378
159	0.999216762	0.020675479	0.024100465	0.991545439	0.990912378
160	0.999239743 0.999240577	0.020408502	0.024025904	0.99146843	0.991003275
161		0.020338949	0.024003325	0.99146843	0.991003275
162	0.999249041	0.020318486	0.023986589	0.99146843	0.991003275
163	0.999256551	0.020298541	0.023980692	0.99146843	0.991003275
164	0.99926579	0.020238478	0.023944572	0.99146843	0.991003275
165	0.999267697	0.020094847	0.023878301	0.991546392	0.991003275
166	0.999275565	0.020075003	0.023845807	0.991546392	0.991003275
167	0.999275744	0.020055812	0.023839472	0.991546392	0.991003275
168	0.999279976	0.020006143	0.023796938	0.991546392	0.991003275
169	0.999279857	0.019987408	0.023798812	0.991546392	0.991093338
170	0.999280989	0.019895056	0.023747237	0.991585433	0.991092503
171	0.999290705	0.019772971	0.023698626	0.991741359	0.9911834
172	0.999290645	0.019754719	0.023696125	0.991741359	0.991182625
173	0.999290586	0.019736771	0.023698278	0.991741359	0.991182625
174	0.999290705	0.019718861	0.02369128	0.991741359	0.991182625
175	0.999291122	0.019700069	0.023686115	0.991741359	0.991182625
176	0.999306262	0.019584663	0.02363421	0.991702378	0.991092503
177	0.999328732	0.019402958	0.023500053	0.991779745	0.991182625
178	0.999328613	0.019375181	0.023501299	0.991779745	0.991182625
179	0.999331057	0.019296268	0.023453493	0.991779745	0.991182625
180	0.999331057	0.019278601	0.023453726	0.991779745	0.991182625
181	0.999330938	0.019252831	0.023448559	0.991779745	0.991182625
182	0.999331236	0.019223299	0.023435241	0.991857767	0.991182625
183	0.999325514	0.019097626	0.023345452	0.991975129	0.991181791
184	0.999324322	0.018970951	0.023285905	0.991897106	0.991091728
185	0.999324441	0.018953612	0.023279201	0.991897106	0.991091728

186	0.99932611	0.018936533	0.023264341	0.991897106	0.991091728
187	0.99932605	0.018919649	0.02326699	0.991897106	0.991091728
188	0.999332368	0.018804768	0.023192924	0.991897106	0.991091728
189	0.999332607	0.018787755	0.023184918	0.991897106	0.991091728
190	0.999332488	0.018771313	0.023185298	0.991897106	0.991091728
191	0.999368012	0.018652605	0.023041492	0.991780043	0.991091728
192	0.999368012	0.018636314	0.023041509	0.991780043	0.991091728
193	0.999366462	0.018609634	0.023038249	0.991779745	0.991091728
194	0.999369502	0.018578226	0.023035552	0.991779745	0.991091728
195	0.999373913	0.018460065	0.022955904	0.991974831	0.991091728
196	0.999379516	0.010400003	0.022940619	0.991974831	0.991091728
197	0.999379456	0.018427642	0.022943374	0.991974831	0.991091728
	0.999386072	0.018427042	0.022943374	0.99193579	0.991091728
198			0.011001110	0.00200070	0.002002720
199	0.999387622	0.018120404	0.022721	0.99193579	0.991091728
200	0.999387622	0.01810478	0.02272097	0.99193579	0.991091728
201	0.99938792	0.018074289	0.022689521	0.991974831	0.991091728
202	0.999395907	0.017994896	0.02265786	0.99193579	0.991091728
203	0.999395728	0.017960604	0.022657821	0.99193579	0.991091728
204	0.999396026	0.017905854	0.02262787	0.99193579	0.991091728
205	0.999396086	0.017881772	0.022623779	0.991975129	0.991091728
206	0.999396086	0.017866693	0.022623768	0.991975129	0.991091728
207	0.999397993	0.017786341	0.02256386	0.99201417	0.991091728
208	0.999401808	0.017745834	0.022524467	0.99201417	0.991091728
209	0.999397933	0.017665122	0.022473911	0.99201417	0.991091728
210	0.999397933	0.01765018	0.022473915	0.99201417	0.991091728
211	0.999395311	0.017573884	0.022428166	0.992131233	0.991091728
212	0.999395311	0.01755845	0.022428166	0.992131233	0.991091728
213	0.999395311	0.017533662	0.022423904	0.992131233	0.991091728
214	0.99939537	0.017514268	0.022419026	0.992209315	0.991091728
215	0.999397099	0.017405737	0.02237872	0.992287397	0.991091728
216	0.999397099	0.017391546	0.022381589	0.992287397	0.991091728
217	0.999396861	0.017351275	0.022365836	0.992326438	0.991091728
218	0.999393225	0.01725303	0.022297496	0.992365539	0.991091728
219	0.999400079	0.017137077	0.022204617	0.992365539	0.991091728
220	0.999400079	0.01712255	0.022206929	0.992365539	0.991091728
221	0.999400318	0.017108684	0.022200467	0.992365539	0.991091728
222	0.999400258	0.017067056	0.022174986	0.992365837	0.991091728
223	0.999400198	0.017053042	0.022172093	0.992365837	0.991091728
224	0.999400198	0.017039649	0.022172093	0.992365837	0.991091728
225	0.999400198	0.017026478	0.022172093	0.992365837	0.991091728
226	0.999409616	0.016933104	0.022133199	0.992365539	0.991091728
227	0.999409795	0.016919982	0.022129489	0.992365539	0.991091728
228	0.999409795	0.016907001	0.022129467	0.992365539	0.991091728
229	0.999410212	0.016784063	0.022065116	0.992365539	0.991091728
230	0.9994151	0.016692078	0.022005454	0.992365837	0.991091728
231	0.999418795	0.016617676	0.021940364	0.992365837	0.991091728
232	0.999416113	0.016576851	0.021938648	0.992365837	0.991091728
_02	5.555-15110	5.5155,0001	3.321333343	0.00200007	0.001001/20

233	0.999415696	0.016544936	0.021919515	0.992326736	0.991091728
234	0.999417722	0.016485669	0.021871971	0.992365837	0.991091728
235	0.999417663	0.016465979	0.021868704	0.992365837	0.991091728
236	0.999417603	0.016440433	0.021867093	0.992366135	0.991091728
237	0.999417841	0.016427929	0.021856423	0.992366135	0.991091728
238	0.99942112	0.016415661	0.021837734	0.992366135	0.991091728
239	0.999418914	0.016338635	0.021808626	0.992327034	0.991091728
240	0.999418914	0.016326485	0.021808635	0.992327034	0.991091728
241	0.999419093	0.016301822	0.021799408	0.992327034	0.991091728
242	0.999419093	0.016287919	0.021798138	0.992327034	0.991091728
243	0.999419391	0.016237155	0.02175368	0.992327034	0.991362095
244	0.999419391	0.016225388	0.021753695	0.992327034	0.991362095
245	0.999419451	0.016213877	0.021749185	0.992327034	0.991362095
246	0.999420524	0.016202588	0.021736922	0.992327034	0.991362095
247	0.999420464	0.016191453	0.02174074	0.992327034	0.991362095
248	0.999428332	0.016123291	0.021717828	0.992326736	0.991362095
249	0.999428272	0.016078567	0.021704933	0.992365837	0.991362095
250	0.999427795	0.016065611	0.021703677	0.992366135	0.991362095
251	0.999432683	0.01600652	0.021654096	0.992366135	0.991362095
252	0.999436259	0.015927382	0.021597723	0.992405176	0.991362095
253	0.999438226	0.015914582	0.02159078	0.992405176	0.991362095
254	0.999442935	0.015800908	0.021486666	0.992405176	0.991362095
255	0.999442935	0.015789911	0.021486625	0.992405176	0.991362095
256	0.999444008	0.015726924	0.021437852	0.992405176	0.991362095
257	0.999444366	0.015685096	0.021439897	0.992483258	0.991362095
258	0.999445021	0.015674211	0.021434855	0.992483258	0.991362095
259	0.999452472	0.015582276	0.021376882	0.992639542	0.991362095
260	0.999453545	0.015571455	0.021374334	0.992639542	0.991362095
261	0.999454021	0.015505261	0.021352779	0.992639244	0.991362095
262	0.999454021	0.015474286	0.02134995	0.992756486	0.991271913
263	0.999454021	0.015463639	0.021348532	0.992756486	0.991271913
264	0.999453962	0.015447821	0.021348186	0.992756784	0.991271913
265	0.999456048	0.015382576	0.021325475	0.992717683	0.991362095
266	0.999456048	0.015372002	0.021325488	0.992717683	0.991362095
267	0.999456227	0.015339943	0.021297943	0.992756784	0.991452217
268	0.999456167	0.015322738	0.021290839	0.992757022	0.991452992
269	0.999456167	0.015312456	0.021290867	0.992757022	0.991452992
270	0.999457836	0.015249917	0.021287004	0.992874324	0.991452992
271	0.999457777	0.015239813	0.021288933	0.992874324	0.991452992
272	0.999464214	0.015178964	0.021240974	0.992835224	0.991452992
273	0.999464571	0.01515262	0.021239685	0.992835224	0.991452992
274	0.999464333	0.015128244	0.021235939	0.992835224	0.991452992
275	0.999461532	0.015053035	0.021167481	0.992913365	0.991452992
276	0.99946636	0.014985909	0.021073334	0.992952228	0.991452992
277	0.999466062	0.014937249	0.02105242	0.992991269	0.991452992
278	0.999466062	0.014927222	0.021052433	0.992991269	0.991452992
279	0.999466419	0.014901649	0.021045933	0.992991269	0.991452992

280	0.999465883	0.014878224	0.021042766	0.993030369	0.991543174
281	0.999465823	0.014868437	0.021042746	0.993030369	0.991543174
282	0.999466419	0.014854426	0.021030713	0.993030369	0.991543174
283	0.999464333	0.014701796	0.020924201	0.99306953	0.991452992
284	0.99946034	0.014579928	0.020831712	0.993069768	0.991452992
285	0.999465287	0.014522502	0.020799741	0.99310863	0.991452992
286	0.999470294	0.014508157	0.020784536	0.993147731	0.991452992
287	0.999472678	0.014498653	0.020778852	0.993147731	0.991452992
288	0.999471486	0.01445961	0.020768065	0.993147731	0.991453767
289	0.999467194	0.01436137	0.020668298	0.99310863	0.991543889
290	0.999467134	0.014346466	0.020669049	0.993147731	0.991543889
291	0.999467671	0.01429273	0.020643441	0.993147731	0.991543889
292	0.999471247	0.014229964	0.020620348	0.993225932	0.991543174
293	0.999471307	0.014201468	0.020605473	0.993225932	0.991543174
294	0.999471307	0.014192095	0.020605411	0.993225932	0.991543174
295	0.999471366	0.014182937	0.02060074	0.993225932	0.991543174
296	0.999473333	0.01410969	0.02054256	0.993225932	0.991452992
297	0.999476373	0.014100165	0.020539474	0.993225932	0.991452217
298	0.999478996	0.014088219	0.020526044	0.993225932	0.991452217
299	0.999478936	0.014070816	0.020527439	0.993225932	0.991452217
300	0.999481678	0.014053321	0.020513523	0.993265092	0.991452217
301	0.99948138	0.014008803	0.020493884	0.993304193	0.991452217
302	0.99948138	0.013997266	0.02049382	0.993304193	0.991452217
303	0.999482095	0.013986091	0.020488024	0.993304193	0.991452217
304	0.999486387	0.013929144	0.020423492	0.993304193	0.991542399
305	0.999486387	0.013918441	0.020423518	0.993304193	0.991542399
306	0.999486387	0.013905121	0.020417774	0.993304431	0.991542399
307	0.999484897	0.013807974	0.020338174	0.993343592	0.991542399
308	0.99948597	0.013769113	0.020319007	0.993343592	0.991542399
309	0.999485731	0.013701378	0.020271979	0.993382692	0.991542399
310	0.99948591	0.013684452	0.020274814	0.993343592	0.991542399
311	0.99948591	0.013670914	0.020274227	0.993382692	0.991542399
312	0.999492645	0.013615985	0.020257685	0.993421853	0.991542399
313	0.999492645	0.013607743	0.020257568	0.993421853	0.991542399
314	0.999494851	0.01354205	0.020229211	0.993539214	0.991542399
315	0.999495983	0.013531746	0.020219984	0.993539214	0.991542399
316	0.999495924	0.013517288	0.020216852	0.993578374	0.991542399
317	0.999499023	0.013471612	0.020179989	0.993539214	0.991542399
318	0.999499023	0.013461746	0.020180512	0.993539512	0.991542399
319	0.999501169	0.01342083	0.020161539	0.993578613	0.991542399
320	0.999497771	0.013399377	0.020160364	0.993617773	0.991542399
321	0.999496341	0.013374061	0.020155923	0.993656933	0.991542399
322	0.999496222	0.013355202	0.02015519	0.993696094	0.991632581
323	0.999497175	0.013321323	0.020139797	0.993656933	0.991632581
324	0.999496222	0.013291791	0.020146763	0.993735254	0.991632581
325	0.999496341	0.013204626	0.020048624	0.993813515	0.991632581
326	0.999496281	0.013187195	0.020046933	0.993813515	0.991632581

327	0.999496341	0.013179376	0.020043507	0.993813515	0.991632581
328	0.999496281	0.013166633	0.02004274	0.993813515	0.991632581
329	0.99949646	0.013158963	0.020038184	0.993813515	0.991632581
330	0.999497652	0.013148849	0.020029068	0.993813515	0.991632581
331	0.999497652	0.01313999	0.020028945	0.993813515	0.991632581
332	0.999497652	0.013127909	0.020026742	0.993852675	0.991632581
333	0.999495864	0.013071638	0.020001169	0.993891895	0.991632581
334	0.999497116	0.01306213	0.019988703	0.993891895	0.991632581
335	0.999498248	0.013028494	0.019979252	0.993813515	0.991632581
336	0.999498069	0.013023434	0.019965488	0.993891895	0.991722763
337	0.99949789	0.012933476	0.01996547	0.993931055	0.991722763
338	0.99949801	0.012977200	0.019961685	0.993931055	0.991722763
	0.999503016	0.01290994		0.993931033	0.991722763
339		0.01000	0.019925332		
340	0.999503016	0.012896877	0.019925328	0.994009376	0.991722763
341	0.999504805	0.012857114	0.019893723	0.994009376	0.991722763
342	0.999504685	0.012845251	0.019894792	0.994048536	0.991722763
343	0.999504685	0.01283809	0.019892057	0.994048536	0.991722763
344	0.999504864	0.012829609	0.019885244	0.994048536	0.991722763
345	0.999504864	0.01281842	0.019878346	0.994048536	0.991722763
346	0.999515414	0.012781183	0.019830422	0.994048536	0.991722763
347	0.999515414	0.012774363	0.019830471	0.994048536	0.991722763
348	0.999513805	0.012695281	0.019745111	0.994048774	0.991722763
349	0.999507666	0.012678456	0.019747607	0.994048774	0.991722763
350	0.999507606	0.012666463	0.019744499	0.994048774	0.991722763
351	0.999507964	0.012659656	0.019737026	0.994048774	0.991722763
352	0.999508083	0.012648677	0.019735813	0.994087994	0.991722763
353	0.999507427	0.012632974	0.019730201	0.994166315	0.991722763
354	0.99950844	0.012523179	0.019595386	0.994087994	0.991542399
355	0.999510884	0.012393516	0.019522525	0.994205296	0.991542399
356	0.999510884	0.012384865	0.019522227	0.994205296	0.991542399
357	0.999511003	0.012372687	0.01951568	0.994205296	0.991541624
358	0.999509335	0.012297278	0.019435465	0.994244695	0.991541624
359	0.999509335	0.012290604	0.019435477	0.994244695	0.991541624
360	0.999510169	0.012251125	0.019423185	0.994322896	0.991541624
361	0.999511719	0.012233939	0.019418454	0.994323134	0.991541624
362	0.999512136	0.012201989	0.019396979	0.994323134	0.991541624
363	0.999514401	0.012194693	0.019392168	0.994323134	0.991541624
364	0.999517262	0.012137244	0.019314539	0.994283915	0.991541624
365	0.999517322	0.012129697	0.019311488	0.994283915	0.991541624
366	0.999516428	0.012068005	0.019261273	0.994244695	0.991541624
367	0.999516428	0.012057629	0.019261269	0.994244695	0.991541624
368	0.999516606	0.012046828	0.019248096	0.994283915	0.991541624
369	0.999518514	0.012040428	0.019242484	0.994283915	0.991541624
370	0.999518514	0.012031758	0.019240882	0.994323134	0.991541624
371	0.999518991	0.011996903	0.019222504	0.994440734	0.991541624
372	0.999518752	0.011975739	0.019219592	0.994440734	0.991541624
373	0.999519646	0.011972622	0.01919207	0.994597554	0.991631806
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374	0.999519587	0.011906346	0.019192429	0.994597554	0.991631806
375	0.999516666	0.011853577	0.01915781	0.994832933	0.991722763
376	0.999518216	0.011845734	0.019147679	0.994872212	0.991722763
377	0.999519348	0.011791277	0.0191113	0.994793713	0.991722763
378	0.999519765	0.011758002	0.019080415	0.994832933	0.991722763
379	0.999519765	0.011745715	0.019079894	0.994872212	0.991722763
380	0.999520123	0.011739563	0.019071694	0.994872212	0.991722763
381	0.999520838	0.011733578	0.019071031	0.994950891	0.991722763
382	0.999525011	0.011688287	0.019031184	0.995029569	0.991722763
383	0.999523699	0.011632047	0.018975629	0.99502939	0.991812944
384	0.999518216	0.011565038	0.018935643	0.995186448	0.991812944
385	0.999518096	0.011558929	0.018937759	0.995186448	0.991812944
386	0.999518096	0.011549551	0.018939279	0.995225668	0.991812944
387	0.999518096	0.011543636	0.018936606	0.995422065	0.991812944
388	0.999518216	0.011468733	0.018902782	0.995304227	0.991812229
389	0.999518216	0.011462881	0.018900426	0.995461524	0.991902471
390	0.999517977	0.011450151	0.018894259	0.995422244	0.991902471
391	0.999520123	0.01141042	0.018880229	0.995461524	0.991902471
392	0.999520063	0.011363083	0.018855216	0.9955796	0.991902471
393	0.999520004	0.01135721	0.018857334	0.995697498	0.991902471
394	0.999520004	0.011347892	0.018857075	0.995736778	0.991902471
395	0.999521077	0.011338621	0.018847378	0.995736778	0.991902471
396	0.999520838	0.011262727	0.018805882	0.995500624	0.991901755
397	0.999520838	0.011256998	0.018807137	0.99565798	0.991901755
398	0.999521196	0.0112464	0.018786525	0.99569732	0.991901755
399	0.999521196	0.011240791	0.018790474	0.995894015	0.991901755
400	0.999520838	0.011224683	0.018786235	0.995894015	0.991901755
401	0.999520898	0.011218918	0.01878312	0.996090651	0.991901755
402	0.999520719	0.011209844	0.018784206	0.996051311	0.991901755
403	0.999519885	0.011183707	0.018781716	0.99605149	0.991901755
404	0.999519467	0.011153544	0.01877917	0.996012151	0.991901755
405	0.999519527	0.011142385	0.018776087	0.996090829	0.991901755
406	0.999519706	0.011136879	0.018769145	0.996287525	0.991901755
407	0.999520481	0.011125918	0.018759375	0.996248186	0.991901755
408	0.999520421	0.011120479	0.018762505	0.996366203	0.991901755
409	0.999520481	0.011115155	0.018760677	0.996366203	0.991901755
410	0.999520659	0.011095342	0.018755605	0.996444941	0.991901755
411	0.999520659	0.011086482	0.018754335	0.996444941	0.991901755
412	0.999521017	0.011020415	0.018727411	0.99648428	0.991901755
413	0.999521196	0.011003666	0.01872367	0.99648428	0.991901755
414	0.999521136	0.010998389	0.018727724	0.996523678	0.991901755
415	0.99951762	0.010930083	0.018674957	0.996681154	0.991901755
416	0.999517679	0.010924717	0.018674625	0.996681154	0.991901755
417	0.99951762	0.010915417	0.01867673	0.996681154	0.991901755
418	0.99951756	0.010896235	0.018675921	0.996681154	0.991901755
419	0.99951756	0.010891064	0.018676061	0.996681273	0.991901755
420	0.999516487	0.010863209	0.018669521	0.996681273	0.991901755

421	0.999516606	0.010857244	0.018664224	0.996681273	0.991901755
422	0.999516666	0.010851524	0.018659176	0.996681273	0.991901755
423	0.999516726	0.010846039	0.018651713	0.996681273	0.991901755
424	0.999517202	0.010841096	0.018647991	0.996681273	0.991901755
425	0.999518692	0.010822977	0.018638693	0.996681273	0.991901755
426	0.999518991	0.010804499	0.018630937	0.996602535	0.991901755
427	0.999516428	0.010786827	0.018632231	0.996681273	0.991991997
428	0.99951762	0.010770036	0.018623581	0.996681273	0.991991997
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430	0.999517918	0.010749676	0.01861801	0.996720672	0.991991997
431	0.999517798	0.010732749	0.018611467	0.996720672	0.991991997
432	0.999517322	0.010716902	0.018605489	0.996720672	0.991991997
433	0.99951756	0.010701664	0.018597526	0.996720672	0.991991997
434	0.99951756	0.010695342	0.018599804	0.996720672	0.991991997
435	0.99951756	0.010684761	0.018601239	0.996720672	0.991991997
436	0.999516129	0.010660649	0.018599777	0.996681273	0.991991997
437	0.999516129	0.010651801	0.018592149	0.996681273	0.991991997
438	0.999516487	0.010626913	0.018569127	0.996720672	0.991991997
439	0.999517024	0.010621998	0.018565217	0.99676007	0.991991997
440	0.999518454	0.01057481	0.018540654	0.99676007	0.991992712
441	0.999521255	0.010554512	0.018524006	0.996838808	0.991992712
442	0.999521792	0.01054851	0.018516058	0.996838808	0.991992712
443	0.999523401	0.010536836	0.018511456	0.996838808	0.991992712
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445	0.999523699	0.010516686	0.018497081	0.996838808	0.991992712
446	0.999523699	0.010490429	0.018485926	0.996838808	0.991992712
447	0.999524653	0.010485756	0.018481944	0.996838808	0.991992712
448	0.999524653	0.01047537	0.018480323	0.996878207	0.991992712
449	0.999525309	0.010439737	0.018450566	0.996878207	0.992083013
450	0.999525785	0.010426086	0.01844324	0.996878207	0.992083013
451	0.999524713	0.010414717	0.018447399	0.996878207	0.992083013
452	0.999524713	0.010407235	0.018448856	0.996878207	0.992083013
453	0.999524653	0.010402655	0.018453442	0.996878207	0.992083013
454	0.999525607	0.010384154	0.018447669	0.996957004	0.992083013
455	0.999524653	0.010324492	0.018431099	0.996957004	0.992083013
456	0.999524653	0.010319523	0.018428398	0.996996403	0.992083013
457	0.999524951	0.01030677	0.018422032	0.996996403	0.992083013
458	0.999525189	0.010294977	0.018415561	0.996996403	0.992083013
459	0.999525189	0.010286788	0.01841243	0.996996403	0.992083013
460	0.999525249	0.010282243	0.018410668	0.996996403	0.992083013
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999	0.999524474	0.009652786	0.018121786	0.997193575	0.991992712

Step	AUC	Logloss Learn	Logloss Test	Precision Learn	Precision Test
о О		_		0.984116375	
1				0.981353521	
2				0.981443882	
3				0.982442439	
4				0.986180902	
5				0.987185001	
6				0.987189054	
7				0.987169034	
8			0.093200333	0.987200183	
9				0.987157345	
10				0.987155795	
11			0.05942839	0.987139688	
12				0.987136245	
13				0.987136245	
14				0.987136245	
15			0.047463497	0.987130243	
16				0.987136722	
17				0.987333357	
18				0.987294614	
19				0.9853338	
20			0.040291447	0.985414863	
21				0.985337794	
22				0.985684693	
23				0.985375762	
24				0.985838354	
25				0.985722661	0.986783743
26				0.986146986	
27				0.986185551	0.98714
28			0.036665581	0.986186087	
29			0.03634499	0.986263871	
30			0.035963967	0.986611366	
31				0.986495495	
32				0.986456871	
33				0.98645848	
34				0.98645848	
35				0.986419857	
36				0.986419857	
37				0.987501442	
38				0.987539172	
39				0.987578869	
40				0.987657726	
41				0.987657726	
42				0.987541616	
43				0.987657726	
44	0.998492241	0.032488093	0.032332327	0.987890899	0.988580763

45	0.998501718	0.032180704	0.0319837	0.987968326	0.988580763
46	0.998525321	0.032106522	0.031943992	0.987968326	0.988670349
47	0.998528421	0.032024223	0.03190428	0.987929642	0.988580763
48	0.99852854	0.031946111	0.031889465	0.987968326	0.988580763
49	0.99854517	0.031383496	0.031385731	0.98858732	0.989294112
50	0.99857527	0.031023422	0.030960085	0.989014864	0.989653289
51	0.998582363	0.030950872	0.030937694	0.988976061	0.989653289
52	0.998593569	0.030892175	0.030907786	0.988976061	0.989653289
53	0.998594463	0.030805741	0.030847663	0.989170074	0.990192533
54	0.998595119	0.030750392	0.030833464	0.989208937	0.990192533
55	0.998592496	0.030592907	0.0307514	0.989286542	0.990192533
56	0.998587966	0.030395407	0.030603984	0.989364207	0.990282416
57	0.998593867	0.030341832	0.030573536	0.989403009	0.990282416
58	0.998611689	0.030251702	0.030485095	0.989441872	0.990282416
59	0.998611808	0.030203782	0.030475929	0.989441872	0.990282416
60	0.99864459	0.030041154	0.030318851	0.989480734	0.990192533
61	0.998645127	0.029985558	0.030307408	0.989480734	0.990192533
62	0.998647332	0.02989505	0.030232484	0.989558399	0.990192533
63	0.998628974	0.029461522	0.029863518	0.989675343	0.990192533
64	0.998639047	0.029377414	0.029787375	0.989636481	0.990193427
65	0.998648107	0.02916912	0.029645028	0.989674926	0.990193427
66	0.998624384	0.028965687	0.029546639	0.990180314	0.990641475
67	0.998618007	0.028908124	0.029521119	0.990141392	0.990641475
68	0.998641312	0.028637655	0.029194327	0.990258098	0.990641475
69	0.998645604	0.028547814	0.029128058	0.990258098	0.990641475
70	0.998645663	0.028507989	0.029120319	0.99025768	0.990641475
71	0.998646855	0.028456969	0.029098148	0.99025768	0.990641475
72	0.998649001	0.028406609	0.029060049	0.99025768	0.990641475
73	0.998649955	0.028359545	0.029040208	0.990258098	0.990641475
74	0.998646915	0.028101787	0.028830454	0.99029547	0.990642309
75	0.998643756	0.02799223	0.028756851	0.99029547	0.990642309
76	0.998643756	0.02795223	0.028756829	0.99029547	0.990642309
77	0.998648167	0.027911572	0.028735476	0.99029547	0.990642309
78	0.998648107	0.027866714	0.028735727	0.990295827	0.990642309
79	0.998648763	0.027828446	0.028722547	0.990334749	0.990642309
80	0.998672485	0.027493851	0.028371625	0.990412176	0.990642309
81	0.998672485	0.027465999	0.02837179	0.990412176	0.990642309
82	0.998671353	0.027394611	0.028368108	0.990490019	0.990642309
83	0.998672664	0.027353248	0.028347388	0.990490437	0.990642309
84	0.998677909	0.0272657	0.028266637	0.990490437	0.990642309
85	0.998677909	0.027231576	0.028263245	0.990490437	0.990642309
86	0.99867934	0.027204897	0.028237438	0.990490437	0.990642309
87	0.99867934	0.027177319	0.028237602	0.990490437	0.990642309
88	0.998689115	0.027045082	0.028072817	0.990490437	0.990642309
89	0.998689115	0.027017903	0.028072912	0.990490437	0.990642309
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91	0.998685122	0.026890753	0.027984915	0.990490794	0.990642309

92	0.998686612	0.026864225	0.027965128	0.990490794	0.990642309
93	0.998688161	0.026835231	0.027943671	0.990490794	0.990642309
94	0.998689413	0.026786003	0.027931636	0.990490794	0.990642309
95	0.998689413	0.026760438	0.027931681	0.990490794	0.990642309
96	0.998689413	0.02673365	0.027931718	0.990490794	0.990642309
97	0.998689413	0.026707191	0.02793175	0.990490794	0.990642309
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99	0.998685241	0.026331574	0.027561462	0.990724742	0.990642309
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105	0.998675048	0.025983203	0.027402496	0.990802586	0.990912378
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107	0.998700082	0.025928887	0.027382817	0.990802586	0.990912378
108	0.998701096	0.025904514	0.027365552	0.990802586	0.990912378
109	0.998717546	0.025809372	0.027313316	0.990880489	0.990912378
110	0.998717546	0.025776455	0.027304033	0.990880489	0.990912378
111	0.998717546	0.025754955	0.027298899	0.990880489	0.990912378
112	0.998717546	0.025731383	0.027298979	0.990880489	0.990912378
113	0.998717844	0.02570653	0.027291181	0.990880489	0.990912378
114	0.998733044	0.02554054	0.027183682	0.990841568	0.990912378
115	0.998733044	0.025517888	0.027183758	0.990841568	0.990912378
116	0.998744309	0.025430858	0.027128773	0.990841568	0.990912378
117	0.998744845	0.025333351	0.027053598	0.990880489	0.990912378
118	0.998745143	0.025310427	0.027045725	0.990880489	0.990912378
119	0.998759449	0.025288688	0.027037397	0.990880489	0.990912378
120	0.998759389	0.025263794		0.990880489	0.990912378
121	0.998759329		0.027038125	0.990880489	0.990912378
122	0.998759449	0.025217569	0.027023496	0.990880847	0.99100244
123	0.998759449	0.025196023	0.02702353	0.990919828	0.99100244
124	0.998758376	0.025148138		0.99095875	0.99100244
125	0.998758376	0.025124932	0.027007481	0.99095875	0.99100244
126	0.998758316	0.025102958		0.99095875	0.99100244
127	0.998758376	0.025082314	0.026993515	0.99095875	0.99100244
128	0.998758376	0.025059847	0.026993575	0.99095875	0.99100244
129	0.998758554	0.025026951	0.026977701	0.99095875	0.99100244
130	0.998758495		0.026977835	0.99095875	0.99100244
131	0.998758495	0.024984214	0.02697783	0.99095875	0.99100244
132	0.998759449	0.024963045	0.02696011	0.99095875	0.99100244
133	0.998759449	0.024942154		0.99095875	0.99100244
134	0.998763025	0.024871495	0.02692192	0.990919828	0.99100244
135	0.998766422	0.024761748	0.026845545	0.990919828	0.99100244
136	0.998766303	0.02474119	0.026845723	0.990919828	0.99100244
137	0.998764098		0.026844408	0.990919828	0.99100244
138	0.998764098	0.024678545	0.026844444	0.990919828	0.99100244

139	0.998764098	0.024659323	0.026844425	0.990919828	0.99100244
140	0.998764098	0.024639541	0.026844405	0.990919828	0.99100244
141	0.998759389	0.024526168	0.026764626	0.990957677	0.99100244
142	0.998762786	0.024496701	0.026744124	0.990957677	0.99100244
143	0.998762786	0.02447816	0.026744079	0.990957677	0.99100244
144	0.998762786	0.024459276	0.026737083	0.990957677	0.99100244
145	0.998762727	0.024439022	0.026737401	0.990957677	0.99100244
146	0.998762846	0.024420502	0.026730914	0.990957677	0.99100244
147	0.998764813	0.024386728	0.026725028	0.990957677	0.99100244
148	0.998758972	0.024304416	0.026670795	0.990957677	0.99100244
149	0.998758852	0.024281794	0.026670005	0.990957677	0.99100244
150	0.998787344	0.0240769	0.026480224	0.990996659	0.99100244
151	0.998786509	0.023938948	0.026400743	0.990996659	0.99100244
152	0.998808265	0.023790423	0.026290255	0.99103564	0.99100244
153	0.998806059	0.023629667	0.026179001	0.99115324	0.991181791
154	0.99880594	0.023610527	0.026178373	0.99115324	0.991181791
155	0.998816967	0.023456784	0.026058177	0.991231203	0.991362095
156	0.998816967	0.023438646	0.026058232	0.991231203	0.991362095
157	0.998876095	0.022895962	0.025582816	0.991231203	0.991362095
158	0.998883426	0.022809746	0.025538359	0.991231203	0.991452217
159	0.998883367	0.022789545	0.025538519	0.991231203	0.991452217
160	0.998925626	0.022652712	0.025424108	0.991348445	0.991452217
161	0.998925507	0.022633923	0.02542468	0.991348445	0.991452217
162	0.998926401	0.022545703	0.025372472	0.991426408	0.991452992
163	0.998926878	0.022528006	0.025356669	0.991426408	0.991452992
164	0.998950481	0.02198511	0.024858424	0.991426408	0.991452992
165	0.998950481	0.021967128	0.024852114	0.991387427	0.991452992
166	0.998950481	0.021947691	0.024849942	0.991387427	0.991452992
167	0.998950541	0.021922745	0.024843941	0.991387427	0.991452992
168	0.998941123	0.021832986	0.024779318	0.991348445	0.991452992
169	0.998941183	0.021796461	0.024785953	0.991348445	0.991452992
170	0.998941183	0.021780046	0.024785792	0.991348445	0.991452992
171	0.998941183	0.021761909	0.02478442	0.991348445	0.991452992
172	0.998941183	0.021746192	0.024784286	0.991348445	0.991452992
173	0.998946488	0.021730674	0.02477704	0.991348445	0.991452992
174	0.998946548	0.021704787	0.024767783	0.991348445	0.991452992
175	0.998946786	0.021689724	0.024755392	0.991348445	0.991452992
176	0.998946786	0.021671865	0.024754414	0.991387427	0.991452992
177	0.99898982	0.021447485	0.024583377	0.991426408	0.99136287
178	0.998986006	0.021371733	0.024551801	0.991426408	0.991452992
179	0.998986006	0.021357099	0.024551824	0.991426408	0.991452992
180	0.99897933	0.0213337	0.024544228	0.991426408	0.991452992
181	0.998971641	0.021144094	0.024434188	0.991466463	0.991363645
182	0.998977065	0.021129277	0.024427338	0.991466463	0.991363645
183	0.998972654	0.021110632	0.024430616	0.991466463	0.991363645
184	0.998972714	0.021096287		0.991466463	0.991363645
185	0.998985469	0.020980911	0.024363289	0.991427422	0.991363645

186	0.998985469	0.020963993	0.024359023	0.991466463	0.991453767
187	0.998985469	0.020949859	0.024359023	0.991466463	0.991453767
188	0.998978078	0.020886047	0.024338167	0.991466463	0.99136287
189	0.998978078	0.020869279	0.024338176	0.991505444	0.991452992
190	0.998978078	0.020838447	0.024336364	0.991505444	0.991452992
191	0.998978734	0.020796303	0.02432153	0.991505444	0.99136287
192	0.998978734	0.020768287	0.024320072	0.991505444	0.99136287
193	0.998972237	0.020664157	0.02427621	0.991466463	0.99136287
194	0.998984754	0.020586969	0.02423485	0.991505444	0.99136287
195	0.998999298	0.020561228	0.024224196	0.991544425	0.991452992
196	0.998999417	0.020547366	0.024212789	0.991544425	0.991452992
197	0.999022543	0.020442002	0.024148008	0.991543412	0.991452217
198	0.999035597	0.020355711	0.024117775	0.991505444	0.991452992
199	0.999036431	0.020033711	0.024014343	0.991583109	0.991452217
200	0.999036431	0.02021400	0.024014343	0.991661072	0.991542399
201	0.999040246	0.020191444	0.023973316	0.991661429	0.991542399
201	0.999041021	0.020120964	0.023973310	0.991661429	0.991542399
202	0.999046504	0.020113612	0.023955872	0.991661429	0.991542399
	0.999047041		0.023933672		0.991542399
204		0.020063229	0.020027.200	0.991700411	
205	0.999047041	0.020050194	0.023924397	0.991739452	0.991542399
206	0.999047101	0.020037455	0.023919523	0.991739452	0.991542399
207	0.999043465	0.019919483	0.023817349	0.991700411	0.991542399
208	0.999043345	0.019897984	0.023807157	0.991739452	0.991632581
209	0.999043345	0.019885588	0.023807155	0.991739452	0.991632581
210	0.999043345	0.019873496	0.023807155	0.991739452	0.991632581
211	0.999035239	0.019781617	0.023755418	0.991778791	0.991632581
212	0.99903518	0.019765729	0.023757195	0.991778791	0.991632581
213	0.999038696	0.019750938	0.023749838	0.991778791	0.991632581
214	0.999057174	0.019630341	0.023666857	0.991895854	0.991632581
215	0.999050319		0.023622537	0.991856813	0.991542399
216	0.999051094	0.019523768	0.023612499	0.991895854	0.991632581
217	0.999051094	0.019511806		0.991895854	0.991632581
218	0.9990592	0.019392207	0.023550168	0.991856813	0.991632581
219	0.9990592	0.019378548	0.023547919	0.991856813	0.991632581
220	0.999063969	0.019303469	0.023511916	0.991934836	0.991632581
221	0.999064326	0.019289948	0.02350531	0.991934836	0.991632581
222	0.999064445	0.019270459	0.023495568	0.992012918	0.991632581
223	0.999064863	0.019250685	0.02349095	0.992012918	0.991632581
224	0.999038756	0.019080287	0.023367278	0.992051959	0.991632581
225	0.999038756	0.019065261	0.023364779	0.992051959	0.991632581
226	0.999049664	0.019033046	0.023345642	0.992129683	0.991721988
227	0.999049962	0.019002795	0.023337768	0.992168725	0.991722763
228	0.999055803	0.018976258	0.023328507	0.992207766	0.991722763
229	0.999055803	0.01895874	0.023325175	0.992285907	0.991722763
230	0.999058902	0.018896358	0.023297468	0.992324948	0.991722763
231	0.999058902	0.018885288	0.023297371	0.992324948	0.991722763
232	0.999052167	0.018842641	0.023283072	0.99240309	0.991722763

233	0.999052167	0.018831728	0.023278803	0.99240309	0.991722763
234	0.999052167	0.018821228	0.023279084	0.99240309	0.991722763
235	0.999049723	0.018781049	0.023241991	0.992442429	0.991903186
236	0.999049783	0.01868476	0.023162773	0.992520571	0.991903186
237	0.999051332	0.018650817	0.023145512	0.992559612	0.991903186
238	0.999051332	0.018639779	0.023145143	0.992559612	0.991903186
239	0.999051332	0.018629659	0.023145109	0.992559612	0.991903186
240	0.999051034	0.01855026	0.02314562	0.992559612	0.991812944
241	0.999043763	0.018474223	0.023101997	0.992559612	0.991812944
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243	0.999053478	0.018392816	0.023050154	0.992598712	0.991812229
244	0.999053478	0.01838132	0.023050085	0.992598712	0.991812229
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246	0.999053657	0.018278938	0.023009906	0.992559612	0.991812229
247	0.999053717	0.018269118	0.023006048	0.992559612	0.991812229
248	0.999056935	0.018195547	0.022977313	0.992559612	0.991812229
249	0.999066472	0.018107301	0.022928786	0.992559612	0.991902471
250	0.999067247	0.018047297	0.022909187	0.992559612	0.991902471
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252	0.999067307	0.018026104	0.02290857	0.992598712	0.991902471
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254	0.999066412	0.017978679	0.022895444	0.992637813	0.991902471
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256	0.99906534	0.017937968	0.022879338	0.992637813	0.991902471
257	0.999054968	0.017891694	0.022856718	0.992598712	0.991902471
258	0.999055028	0.017882165	0.022852905	0.992598712	0.991902471
259	0.999054909	0.01786465	0.022850627	0.992598712	0.991902471
260	0.999056876	0.017834609	0.022828791	0.992598712	0.991902471
261	0.999056816	0.017818918	0.022825861	0.992598712	0.991902471
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263	0.999057114	0.017789548	0.022823418	0.992637813	0.991902471
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273	0.999091268	0.017354572	0.022591053	0.992755353	0.991902471
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275	0.999091029	0.017329408	0.022590876	0.992755353	0.991903186
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286	0.999095082	0.016996436	0.022424862	0.992911696	0.991903186
287	0.999095023	0.016987877	0.022429056	0.992911696	0.991903186
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290	0.999098003	0.016919557	0.022401091	0.993028998	0.991903186
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292	0.999097943	0.016898943	0.022402836	0.993028998	0.991903186
293	0.999097943	0.016887058	0.022402630	0.993068159	0.991903186
294	0.999099255	0.016824605	0.022401003	0.99314636	0.991993427
295	0.999103189	0.010024003	0.0223436	0.99314030	0.991993427
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297	0.999100327	0.016681055	0.022281693	0.993107259	0.002000.27
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299	0.999094188	0.016497139	0.022098303	0.993224621	0.992264271
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314	0.999161959	0.016058318	0.021836394	0.993263721	0.992264271
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317	0.999163389	0.016006771	0.021803282	0.993302882	0.992264271
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321	0.999164402	0.015969664	0.021792149	0.993302882	0.992263556
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326	0.999182522	0.015801098	0.021696288	0.993498564	0.992172539

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333	0.999162972	0.01557272	0.021620328	0.993616521	0.992172539
334	0.999163032	0.015556342	0.021609511	0.993734002	0.9922629
335	0.999163032	0.0155495	0.021609558	0.993773162	0.9922629
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Tuned CatBoost TB Tuned CatBoost IB Step **AUC** Logloss Lea Logloss Tes Precision La Precision Test Step **AUC** 0 0.997016 0 0.996704 0.431841 0.431966 0.987602 0.987923 5 0.998258 0.076968 0.07661 0.987069 0.998152 0.987846 10 0.998527 0.041309 0.040996 0.987887 0.988754 10 0.998142 15 0.998708 0.031467 0.031263 0.989014 15 0.998574 0.989656 0.998784 20 0.027798 0.027947 0.989598 0.990376 20 0.998653 25 0.998639 25 0.998834 0.026385 0.026967 0.989754 0.990644 30 0.998854 0.024091 0.025139 0.990143 0.991005 30 0.998623 0.99885 0.023431 0.024988 0.990299 35 0.998568 35 0.991006 40 0.998963 0.022428 0.024351 0.990728 0.991277 40 0.998665 0.999068 0.02176 0.024044 0.990806 0.998785 45 0.991187 45 50 0.999101 0.021129 0.023791 0.990923 0.991187 50 0.998787 55 0.999204 0.020188 0.023087 0.991274 0.991366 55 0.998786 0.019395 0.022608 60 0.999237 0.991586 0.991455 60 0.998743 0.022576 65 0.999231 0.019119 0.991703 0.991455 65 0.998744 0.999231 0.018898 0.022534 0.991821 70 0.991545 70 0.998742 75 0.999261 0.018551 0.022432 0.998772 75 0.991899 0.991545 0.999304 0.018123 0.02224 0.992172 0.998807 80 0.991725 80 85 0.999323 0.017353 0.021861 0.992368 0.991815 85 0.9988 90 0.999325 0.016988 0.021713 0.992602 0.991725 90 0.998827 0.021639 95 0.999331 0.016722 0.992719 0.991815 95 0.998854 0.999353 0.016441 0.02153 0.992876 0.998846 100 0.991815 99 0.999355 0.021447 105 0.016185 0.992993 0.991815 110 0.999368 0.016119 0.021457 0.993071 0.991814 115 0.999379 0.01582 0.021299 0.993267 0.992084 120 0.999414 0.01541 0.020992 0.993463 0.992084 0.999411 0.015111 0.020838 125 0.993658 0.992084 130 0.99942 0.014954 0.020777 0.993697 0.992084 135 0.999421 0.014875 0.020753 0.993697 0.992174 140 0.999422 0.014803 0.020751 0.993776 0.992174 145 0.999424 0.014741 0.02074 0.993815 0.992173 150 0.999425 0.014697 0.020744 0.993815 0.992173 0.020694 0.999419 0.014447 0.993854 155 0.992173 160 0.999418 0.014413 0.020703 0.994011 0.992354 0.020516 165 0.999435 0.014084 0.994167 0.992444 170 0.999438 0.014009 0.020479 0.994246 0.992444 175 0.999437 0.013971 0.020516 0.994285 0.992442 180 0.999436 0.01395 0.020519 0.994285 0.992442 185 0.999435 0.01389 0.020532 0.994363 0.992442 190 0.999436 0.013813 0.020513 0.994403 0.992442 0.999441 0.01378 0.020506 0.994403 195 0.992442 200 0.999441 0.013768 0.020508 0.994403 0.992442 0.999456 0.013438 0.020257 0.994442 205 0.992442 210 0.999456 0.013407 0.020262 0.994442 0.992442 215 0.999456 0.013352 0.020257 0.994481 0.992442

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                         0.019332
                                    0.995266
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295
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                         0.019327
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                         0.019306
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315
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                         0.018294
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460	0.999557	0.008919	0.017915	0.996642	0.992715
465	0.999562	0.008804	0.01786	0.996642	0.992715
470	0.999562	0.008792	0.017864	0.996642	0.992715
475	0.999562	0.008789	0.017867	0.996642	0.992715
480	0.999562	0.008787	0.017869	0.996642	0.992715
485	0.999561	0.008782	0.017878	0.996642	0.992715
490	0.999565	0.008716	0.017778	0.996642	0.992805
495	0.999564	0.008712	0.017783	0.996642	0.992805
499	0.999564	0.008712	0.017784	0.996642	0.992805

```
Logloss Lea Logloss Tes Precision Lo Precision Test
 0.264951 0.265029 0.987415 0.988296
 0.035946 0.035994 0.988585 0.989017
 0.028315 \quad 0.028646 \quad 0.990526 \quad 0.990907
  0.022984 0.024182 0.991117 0.991006
 0.021721 0.023566 0.991235 0.991186
 0.021053 0.023192 0.991508 0.991366
 0.020209 0.022902 0.991703 0.991546
 0.019432  0.022463  0.992132  0.991996
 0.017831 0.021244 0.993107 0.992445
 0.017679
           0.02113 0.993304 0.992355
 0.017594 \ 0.021116 \ 0.993304 \ 0.992265
 0.017145
           0.02105 0.993461 0.992446
  0.01697 \quad 0.021047 \quad 0.993461 \quad 0.992446
 0.016724 0.021032 0.993696 0.992446
  0.01631 0.020835 0.993774 0.992627
  0.01595 0.020729 0.993852 0.992717
 0.015715 \quad 0.020791 \quad 0.994127 \quad 0.992715
 0.014975 0.020509 0.994362 0.992714
 0.014441 0.020188 0.994597 0.993076
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0.0202 0.994597 0.993076

0.014215