

File - model_test

```
1 C:\Users\Frede\Anaconda3\python.exe C:/Users/Frede/Dropbox/  
/Master/DM/Assignments/2/DM2/Expedia-Ranking-Competition/  
model_test.py  
2 Reading in training data...  
3 Imputing NaN...  
4  
5 WOW! 0.0% done! :D  
6  
7 CURRENT CONFIGURATION  
8 #####  
9 DATA PARAMETERS:  
10 Target = score  
11 Max_rank = 10  
12 Prediction weight: 3  
13 RANDOM FOREST PARAMETERS:  
14 Type estimator: classifier  
15 N_trees = 350  
16 Max_features = auto  
17 Max depth = 20  
18 Min_samples_leaf = 20  
19 #####  
20 Fold 1 running...  
21 Fitting model...  
22 Generating predictions...  
23 Converting into submission format...  
24 Calling scoring function...  
25 Matching true booking_bool/click_bool values to submission  
...  
26 Calculating NDCG_5 score...  
27 Finished!  
28 Fold 1 finished!  
29 Prediction scores for 1 folds are:  
30 [0.3449502191623489]  
31  
32 WOW! 1.39% done! :D  
33  
34 CURRENT CONFIGURATION  
35 #####  
36 DATA PARAMETERS:  
37 Target = score  
38 Max_rank = 10  
39 Prediction weight: 3
```

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```
40 RANDOM FOREST PARAMETERS:  
41 Type estimator: classifier  
42 N_trees = 350  
43 Max_features = auto  
44 Max_depth = 20  
45 Min_samples_leaf = 1  
46 #####  
47 Fold 1 running...  
48 Fitting model...  
49 Generating predictions...  
50 Converting into submission format...  
51 Calling scoring function...  
52 Matching true booking_bool/click_bool values to submission  
...  
53 Calculating NDCG_5 score...  
54 Finished!  
55 Fold 1 finished!  
56 Prediction scores for 1 folds are:  
57 [0.3497542987709206]  
58  
59 WOW! 2.78% done! :D  
60  
61 CURRENT CONFIGURATION  
62 #####  
63 DATA PARAMETERS:  
64 Target = score  
65 Max_rank = 10  
66 Prediction_weight: 3  
67 RANDOM FOREST PARAMETERS:  
68 Type estimator: classifier  
69 N_trees = 350  
70 Max_features = auto  
71 Max_depth = 40  
72 Min_samples_leaf = 20  
73 #####  
74 Fold 1 running...  
75 Fitting model...  
76 Generating predictions...  
77 Converting into submission format...  
78 Calling scoring function...  
79 Matching true booking_bool/click_bool values to submission  
...
```

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```
80 Calculating NDCG_5 score...
81 Finished!
82 Fold 1 finished!
83 Prediction scores for 1 folds are:
84 [0.3475390301263642]
85
86 WOW! 4.17% done! :D
87
88 CURRENT CONFIGURATION
89 ######
######
90 DATA PARAMETERS:
91 Target = score
92 Max_rank = 10
93 Prediction weight: 3
94 RANDOM FOREST PARAMETERS:
95 Type estimator: classifier
96 N_trees = 350
97 Max_features = auto
98 Max depth = 40
99 Min_samples_leaf = 1
100 #####
#####
101 Fold 1 running...
102 Fitting model...
103 Generating predictions...
104 Converting into submission format...
105 Calling scoring function...
106 Matching true booking_bool/click_bool values to
    submission...
107 Calculating NDCG_5 score...
108 Finished!
109 Fold 1 finished!
110 Prediction scores for 1 folds are:
111 [0.3464705032647191]
112
113 WOW! 5.56% done! :D
114
115 CURRENT CONFIGURATION
116 #####
#####
117 DATA PARAMETERS:
118 Target = score
119 Max_rank = 10
120 Prediction weight: 3
```

```
121 RANDOM FOREST PARAMETERS:  
122 Type estimator: classifier  
123 N_trees = 350  
124 Max_features = auto  
125 Max depth = 60  
126 Min_samples_leaf = 20  
127 #####  
128 Fold 1 running...  
129 Fitting model...  
130 Generating predictions...  
131 Converting into submission format...  
132 Calling scoring function...  
133 Matching true booking_bool/click_bool values to  
    submission...  
134 Calculating NDCG_5 score...  
135 Finished!  
136 Fold 1 finished!  
137 Prediction scores for 1 folds are:  
138 [0.34786804865041127]  
139  
140 WOW! 6.94% done! :D  
141  
142 CURRENT CONFIGURATION  
143 #####  
144 DATA PARAMETERS:  
145 Target = score  
146 Max_rank = 10  
147 Prediction weight: 3  
148 RANDOM FOREST PARAMETERS:  
149 Type estimator: classifier  
150 N_trees = 350  
151 Max_features = auto  
152 Max depth = 60  
153 Min_samples_leaf = 1  
154 #####  
155 Fold 1 running...  
156 Fitting model...  
157 Generating predictions...  
158 Converting into submission format...  
159 Calling scoring function...  
160 Matching true booking_bool/click_bool values to  
    submission...
```

```
161 Calculating NDCG_5 score...
162 Finished!
163 Fold 1 finished!
164 Prediction scores for 1 folds are:
165 [0.34745090336326856]
166
167 WOW! 8.33% done! :D
168
169 CURRENT CONFIGURATION
170 ######
171 DATA PARAMETERS:
172 Target = score
173 Max_rank = 10
174 Prediction weight: 3
175 RANDOM FOREST PARAMETERS:
176 Type estimator: classifier
177 N_trees = 350
178 Max_features = auto
179 Max depth = None
180 Min_samples_leaf = 20
181 #####
182 Fold 1 running...
183 Fitting model...
184 Generating predictions...
185 Converting into submission format...
186 Calling scoring function...
187 Matching true booking_bool/click_bool values to
    submission...
188 Calculating NDCG_5 score...
189 Finished!
190 Fold 1 finished!
191 Prediction scores for 1 folds are:
192 [0.34619317900603047]
193
194 WOW! 9.72% done! :D
195
196 CURRENT CONFIGURATION
197 #####
198 DATA PARAMETERS:
199 Target = score
200 Max_rank = 10
201 Prediction weight: 3
```

```
202 RANDOM FOREST PARAMETERS:  
203 Type estimator: classifier  
204 N_trees = 350  
205 Max_features = auto  
206 Max depth = None  
207 Min_samples_leaf = 1  
208 #####  
209 Fold 1 running...  
210 Fitting model...  
211 Generating predictions...  
212 Converting into submission format...  
213 Calling scoring function...  
214 Matching true booking_bool/click_bool values to  
    submission...  
215 Calculating NDCG_5 score...  
216 Finished!  
217 Fold 1 finished!  
218 Prediction scores for 1 folds are:  
219 [0.3476665384156042]  
220  
221 WOW! 11.11% done! :D  
222  
223 CURRENT CONFIGURATION  
224 #####  
225 DATA PARAMETERS:  
226 Target = score  
227 Max_rank = 10  
228 Prediction weight: 3  
229 RANDOM FOREST PARAMETERS:  
230 Type estimator: classifier  
231 N_trees = 500  
232 Max_features = auto  
233 Max depth = 20  
234 Min_samples_leaf = 20  
235 #####  
236 Fold 1 running...  
237 Fitting model...  
238 Generating predictions...  
239 Converting into submission format...  
240 Calling scoring function...  
241 Matching true booking_bool/click_bool values to  
    submission...
```

```
242 Calculating NDCG_5 score...
243 Finished!
244 Fold 1 finished!
245 Prediction scores for 1 folds are:
246 [0.34825636615783034]
247
248 WOW! 12.5% done! :D
249
250 CURRENT CONFIGURATION
251 ######
252 DATA PARAMETERS:
253 Target = score
254 Max_rank = 10
255 Prediction weight: 3
256 RANDOM FOREST PARAMETERS:
257 Type estimator: classifier
258 N_trees = 500
259 Max_features = auto
260 Max depth = 20
261 Min_samples_leaf = 1
262 #####
263 Fold 1 running...
264 Fitting model...
265 Generating predictions...
266 Converting into submission format...
267 Calling scoring function...
268 Matching true booking_bool/click_bool values to
    submission...
269 Calculating NDCG_5 score...
270 Finished!
271 Fold 1 finished!
272 Prediction scores for 1 folds are:
273 [0.34914194041341395]
274
275 WOW! 13.89% done! :D
276
277 CURRENT CONFIGURATION
278 #####
279 DATA PARAMETERS:
280 Target = score
281 Max_rank = 10
282 Prediction weight: 3
```

```
283 RANDOM FOREST PARAMETERS:  
284 Type estimator: classifier  
285 N_trees = 500  
286 Max_features = auto  
287 Max depth = 40  
288 Min_samples_leaf = 20  
289 #####  
290 Fold 1 running...  
291 Fitting model...  
292 Generating predictions...  
293 Converting into submission format...  
294 Calling scoring function...  
295 Matching true booking_bool/click_bool values to  
    submission...  
296 Calculating NDCG_5 score...  
297 Finished!  
298 Fold 1 finished!  
299 Prediction scores for 1 folds are:  
300 [0.34728919347430404]  
301  
302 WOW! 15.28% done! :D  
303  
304 CURRENT CONFIGURATION  
305 #####  
306 DATA PARAMETERS:  
307 Target = score  
308 Max_rank = 10  
309 Prediction weight: 3  
310 RANDOM FOREST PARAMETERS:  
311 Type estimator: classifier  
312 N_trees = 500  
313 Max_features = auto  
314 Max depth = 40  
315 Min_samples_leaf = 1  
316 #####  
317 Fold 1 running...  
318 Fitting model...  
319 Generating predictions...  
320 Converting into submission format...  
321 Calling scoring function...  
322 Matching true booking_bool/click_bool values to  
    submission...
```

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```
323 Calculating NDCG_5 score...
324 Finished!
325 Fold 1 finished!
326 Prediction scores for 1 folds are:
327 [0.3490634168849037]
328
329 WOW! 16.67% done! :D
330
331 CURRENT CONFIGURATION
332 #####
333 DATA PARAMETERS:
334 Target = score
335 Max_rank = 10
336 Prediction weight: 3
337 RANDOM FOREST PARAMETERS:
338 Type estimator: classifier
339 N_trees = 500
340 Max_features = auto
341 Max depth = 60
342 Min_samples_leaf = 20
343 #####
344 Fold 1 running...
345 Fitting model...
346 Generating predictions...
347 Converting into submission format...
348 Calling scoring function...
349 Matching true booking_bool/click_bool values to
    submission...
350 Calculating NDCG_5 score...
351 Finished!
352 Fold 1 finished!
353 Prediction scores for 1 folds are:
354 [0.3484616619335479]
355
356 WOW! 18.06% done! :D
357
358 CURRENT CONFIGURATION
359 #####
360 DATA PARAMETERS:
361 Target = score
362 Max_rank = 10
363 Prediction weight: 3
```

```
364 RANDOM FOREST PARAMETERS:  
365 Type estimator: classifier  
366 N_trees = 500  
367 Max_features = auto  
368 Max depth = 60  
369 Min_samples_leaf = 1  
370 #####  
371 Fold 1 running...  
372 Fitting model...  
373 Generating predictions...  
374 Converting into submission format...  
375 Calling scoring function...  
376 Matching true booking_bool/click_bool values to  
    submission...  
377 Calculating NDCG_5 score...  
378 Finished!  
379 Fold 1 finished!  
380 Prediction scores for 1 folds are:  
381 [0.34838890199194783]  
382  
383 WOW! 19.44% done! :D  
384  
385 CURRENT CONFIGURATION  
386 #####  
387 DATA PARAMETERS:  
388 Target = score  
389 Max_rank = 10  
390 Prediction weight: 3  
391 RANDOM FOREST PARAMETERS:  
392 Type estimator: classifier  
393 N_trees = 500  
394 Max_features = auto  
395 Max depth = None  
396 Min_samples_leaf = 20  
397 #####  
398 Fold 1 running...  
399 Fitting model...  
400 Generating predictions...  
401 Converting into submission format...  
402 Calling scoring function...  
403 Matching true booking_bool/click_bool values to  
    submission...
```

```
404 Calculating NDCG_5 score...
405 Finished!
406 Fold 1 finished!
407 Prediction scores for 1 folds are:
408 [0.3488278340636398]
409
410 WOW! 20.83% done! :D
411
412 CURRENT CONFIGURATION
413 ######
414 DATA PARAMETERS:
415 Target = score
416 Max_rank = 10
417 Prediction weight: 3
418 RANDOM FOREST PARAMETERS:
419 Type estimator: classifier
420 N_trees = 500
421 Max_features = auto
422 Max depth = None
423 Min_samples_leaf = 1
424 #####
425 Fold 1 running...
426 Fitting model...
427 Generating predictions...
428 Converting into submission format...
429 Calling scoring function...
430 Matching true booking_bool/click_bool values to
    submission...
431 Calculating NDCG_5 score...
432 Finished!
433 Fold 1 finished!
434 Prediction scores for 1 folds are:
435 [0.35044607287989304]
436
437 WOW! 22.22% done! :D
438
439 CURRENT CONFIGURATION
440 #####
441 DATA PARAMETERS:
442 Target = score
443 Max_rank = 10
444 Prediction weight: 3
```

```
445 RANDOM FOREST PARAMETERS:  
446 Type estimator: classifier  
447 N_trees = 1000  
448 Max_features = auto  
449 Max depth = 20  
450 Min_samples_leaf = 20  
451 #####  
452 Fold 1 running...  
453 Fitting model...  
454 Generating predictions...  
455 Converting into submission format...  
456 Calling scoring function...  
457 Matching true booking_bool/click_bool values to  
    submission...  
458 Calculating NDCG_5 score...  
459 Finished!  
460 Fold 1 finished!  
461 Prediction scores for 1 folds are:  
462 [0.34841500193910635]  
463  
464 WOW! 23.61% done! :D  
465  
466 CURRENT CONFIGURATION  
467 #####  
468 DATA PARAMETERS:  
469 Target = score  
470 Max_rank = 10  
471 Prediction weight: 3  
472 RANDOM FOREST PARAMETERS:  
473 Type estimator: classifier  
474 N_trees = 1000  
475 Max_features = auto  
476 Max depth = 20  
477 Min_samples_leaf = 1  
478 #####  
479 Fold 1 running...  
480 Fitting model...  
481 Generating predictions...  
482 Converting into submission format...  
483 Calling scoring function...  
484 Matching true booking_bool/click_bool values to  
    submission...
```

```
485 Calculating NDCG_5 score...
486 Finished!
487 Fold 1 finished!
488 Prediction scores for 1 folds are:
489 [0.3469988986480749]
490
491 WOW! 25.0% done! :D
492
493 CURRENT CONFIGURATION
494 ######
495 DATA PARAMETERS:
496 Target = score
497 Max_rank = 10
498 Prediction weight: 3
499 RANDOM FOREST PARAMETERS:
500 Type estimator: classifier
501 N_trees = 1000
502 Max_features = auto
503 Max_depth = 40
504 Min_samples_leaf = 20
505 ######
506 Fold 1 running...
507 Fitting model...
508 Generating predictions...
509 Converting into submission format...
510 Calling scoring function...
511 Matching true booking_bool/click_bool values to
      submission...
512 Calculating NDCG_5 score...
513 Finished!
514 Fold 1 finished!
515 Prediction scores for 1 folds are:
516 [0.3489595731347357]
517
518 WOW! 26.39% done! :D
519
520 CURRENT CONFIGURATION
521 ######
522 DATA PARAMETERS:
523 Target = score
524 Max_rank = 10
525 Prediction weight: 3
```

```
526 RANDOM FOREST PARAMETERS:  
527 Type estimator: classifier  
528 N_trees = 1000  
529 Max_features = auto  
530 Max depth = 40  
531 Min_samples_leaf = 1  
532 #####  
533 Fold 1 running...  
534 Fitting model...  
535 Generating predictions...  
536 Converting into submission format...  
537 Calling scoring function...  
538 Matching true booking_bool/click_bool values to  
      submission...  
539 Calculating NDCG_5 score...  
540 Finished!  
541 Fold 1 finished!  
542 Prediction scores for 1 folds are:  
543 [0.34920686408565044]  
544  
545 WOW! 27.78% done! :D  
546  
547 CURRENT CONFIGURATION  
548 #####  
549 DATA PARAMETERS:  
550 Target = score  
551 Max_rank = 10  
552 Prediction weight: 3  
553 RANDOM FOREST PARAMETERS:  
554 Type estimator: classifier  
555 N_trees = 1000  
556 Max_features = auto  
557 Max depth = 60  
558 Min_samples_leaf = 20  
559 #####  
560 Fold 1 running...  
561 Fitting model...  
562 Generating predictions...  
563 Converting into submission format...  
564 Calling scoring function...  
565 Matching true booking_bool/click_bool values to  
      submission...
```

```
566 Calculating NDCG_5 score...
567 Finished!
568 Fold 1 finished!
569 Prediction scores for 1 folds are:
570 [0.346298499418198]
571
572 WOW! 29.17% done! :D
573
574 CURRENT CONFIGURATION
575 ######
576 DATA PARAMETERS:
577 Target = score
578 Max_rank = 10
579 Prediction weight: 3
580 RANDOM FOREST PARAMETERS:
581 Type estimator: classifier
582 N_trees = 1000
583 Max_features = auto
584 Max depth = 60
585 Min_samples_leaf = 1
586 #####
587 Fold 1 running...
588 Fitting model...
589 Generating predictions...
590 Converting into submission format...
591 Calling scoring function...
592 Matching true booking_bool/click_bool values to
      submission...
593 Calculating NDCG_5 score...
594 Finished!
595 Fold 1 finished!
596 Prediction scores for 1 folds are:
597 [0.3507434015374123]
598
599 WOW! 30.56% done! :D
600
601 CURRENT CONFIGURATION
602 #####
603 DATA PARAMETERS:
604 Target = score
605 Max_rank = 10
606 Prediction weight: 3
```

```
607 RANDOM FOREST PARAMETERS:  
608 Type estimator: classifier  
609 N_trees = 1000  
610 Max_features = auto  
611 Max depth = None  
612 Min_samples_leaf = 20  
613 #####  
614 Fold 1 running...  
615 Fitting model...  
616 Generating predictions...  
617 Converting into submission format...  
618 Calling scoring function...  
619 Matching true booking_bool/click_bool values to  
submission...  
620 Calculating NDCG_5 score...  
621 Finished!  
622 Fold 1 finished!  
623 Prediction scores for 1 folds are:  
624 [0.3463067294580246]  
625  
626 WOW! 31.94% done! :D  
627  
628 CURRENT CONFIGURATION  
629 #####  
630 DATA PARAMETERS:  
631 Target = score  
632 Max_rank = 10  
633 Prediction weight: 3  
634 RANDOM FOREST PARAMETERS:  
635 Type estimator: classifier  
636 N_trees = 1000  
637 Max_features = auto  
638 Max depth = None  
639 Min_samples_leaf = 1  
640 #####  
641 Fold 1 running...  
642 Fitting model...  
643 Generating predictions...  
644 Converting into submission format...  
645 Calling scoring function...  
646 Matching true booking_bool/click_bool values to  
submission...
```

```
647 Calculating NDCG_5 score...
648 Finished!
649 Fold 1 finished!
650 Prediction scores for 1 folds are:
651 [0.3480810037466758]
652
653 WOW! 33.33% done! :D
654
655 CURRENT CONFIGURATION
656 ######
657 DATA PARAMETERS:
658 Target = score
659 Max_rank = 10
660 Prediction weight: 3
661 RANDOM FOREST PARAMETERS:
662 Type estimator: classifier
663 N_trees = 2000
664 Max_features = auto
665 Max depth = 20
666 Min_samples_leaf = 20
667 ######
668 Fold 1 running...
669 Fitting model...
670 Generating predictions...
671 Converting into submission format...
672 Calling scoring function...
673 Matching true booking_bool/click_bool values to
    submission...
674 Calculating NDCG_5 score...
675 Finished!
676 Fold 1 finished!
677 Prediction scores for 1 folds are:
678 [0.3482733280806205]
679
680 WOW! 34.72% done! :D
681
682 CURRENT CONFIGURATION
683 ######
684 DATA PARAMETERS:
685 Target = score
686 Max_rank = 10
687 Prediction weight: 3
```

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```
688 RANDOM FOREST PARAMETERS:  
689 Type estimator: classifier  
690 N_trees = 2000  
691 Max_features = auto  
692 Max depth = 20  
693 Min_samples_leaf = 1  
694 #####  
695 Fold 1 running...  
696 Fitting model...  
697 Generating predictions...  
698 Converting into submission format...  
699 Calling scoring function...  
700 Matching true booking_bool/click_bool values to  
    submission...  
701 Calculating NDCG_5 score...  
702 Finished!  
703 Fold 1 finished!  
704 Prediction scores for 1 folds are:  
705 [0.34721837155315094]  
706  
707 WOW! 36.11% done! :D  
708  
709 CURRENT CONFIGURATION  
710 #####  
711 DATA PARAMETERS:  
712 Target = score  
713 Max_rank = 10  
714 Prediction weight: 3  
715 RANDOM FOREST PARAMETERS:  
716 Type estimator: classifier  
717 N_trees = 2000  
718 Max_features = auto  
719 Max depth = 40  
720 Min_samples_leaf = 20  
721 #####  
722 Fold 1 running...  
723 Fitting model...  
724 Generating predictions...  
725 Converting into submission format...  
726 Calling scoring function...  
727 Matching true booking_bool/click_bool values to  
    submission...
```

```
728 Calculating NDCG_5 score...
729 Finished!
730 Fold 1 finished!
731 Prediction scores for 1 folds are:
732 [0.3478535326943999]
733
734 WOW! 37.5% done! :D
735
736 CURRENT CONFIGURATION
737 ######
738 DATA PARAMETERS:
739 Target = score
740 Max_rank = 10
741 Prediction weight: 3
742 RANDOM FOREST PARAMETERS:
743 Type estimator: classifier
744 N_trees = 2000
745 Max_features = auto
746 Max depth = 40
747 Min_samples_leaf = 1
748 #####
749 Fold 1 running...
750 Fitting model...
751 Generating predictions...
752 Converting into submission format...
753 Calling scoring function...
754 Matching true booking_bool/click_bool values to
    submission...
755 Calculating NDCG_5 score...
756 Finished!
757 Fold 1 finished!
758 Prediction scores for 1 folds are:
759 [0.35020711316159636]
760
761 WOW! 38.89% done! :D
762
763 CURRENT CONFIGURATION
764 #####
765 DATA PARAMETERS:
766 Target = score
767 Max_rank = 10
768 Prediction weight: 3
```

```
769 RANDOM FOREST PARAMETERS:  
770 Type estimator: classifier  
771 N_trees = 2000  
772 Max_features = auto  
773 Max depth = 60  
774 Min_samples_leaf = 20  
775 #####  
776 Fold 1 running...  
777 Fitting model...  
778 Generating predictions...  
779 Converting into submission format...  
780 Calling scoring function...  
781 Matching true booking_bool/click_bool values to  
    submission...  
782 Calculating NDCG_5 score...  
783 Finished!  
784 Fold 1 finished!  
785 Prediction scores for 1 folds are:  
786 [0.34845811267374655]  
787  
788 WOW! 40.28% done! :D  
789  
790 CURRENT CONFIGURATION  
791 #####  
792 DATA PARAMETERS:  
793 Target = score  
794 Max_rank = 10  
795 Prediction weight: 3  
796 RANDOM FOREST PARAMETERS:  
797 Type estimator: classifier  
798 N_trees = 2000  
799 Max_features = auto  
800 Max depth = 60  
801 Min_samples_leaf = 1  
802 #####  
803 Fold 1 running...  
804 Fitting model...  
805 Generating predictions...  
806 Converting into submission format...  
807 Calling scoring function...  
808 Matching true booking_bool/click_bool values to  
    submission...
```

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```
809 Calculating NDCG_5 score...
810 Finished!
811 Fold 1 finished!
812 Prediction scores for 1 folds are:
813 [0.35004784495831853]
814
815 WOW! 41.67% done! :D
816
817 CURRENT CONFIGURATION
818 ######
819 DATA PARAMETERS:
820 Target = score
821 Max_rank = 10
822 Prediction weight: 3
823 RANDOM FOREST PARAMETERS:
824 Type estimator: classifier
825 N_trees = 2000
826 Max_features = auto
827 Max depth = None
828 Min_samples_leaf = 20
829 #####
830 Fold 1 running...
831 Fitting model...
832 Generating predictions...
833 Converting into submission format...
834 Calling scoring function...
835 Matching true booking_bool/click_bool values to
     submission...
836 Calculating NDCG_5 score...
837 Finished!
838 Fold 1 finished!
839 Prediction scores for 1 folds are:
840 [0.3483667442479488]
841
842 WOW! 43.06% done! :D
843
844 CURRENT CONFIGURATION
845 #####
846 DATA PARAMETERS:
847 Target = score
848 Max_rank = 10
849 Prediction weight: 3
```

```
850 RANDOM FOREST PARAMETERS:  
851 Type estimator: classifier  
852 N_trees = 2000  
853 Max_features = auto  
854 Max depth = None  
855 Min_samples_leaf = 1  
856 #####  
857 Fold 1 running...  
858 Fitting model...  
859 Generating predictions...  
860 Converting into submission format...  
861 Calling scoring function...  
862 Matching true booking_bool/click_bool values to  
     submission...  
863 Calculating NDCG_5 score...  
864 Finished!  
865 Fold 1 finished!  
866 Prediction scores for 1 folds are:  
867 [0.34908327822517565]  
868  
869 WOW! 44.44% done! :D  
870  
871 CURRENT CONFIGURATION  
872 #####  
873 DATA PARAMETERS:  
874 Target = score  
875 Max_rank = 10  
876 Prediction weight: 3  
877 RANDOM FOREST PARAMETERS:  
878 Type estimator: classifier  
879 N_trees = 350  
880 Max_features = sqrt  
881 Max depth = 20  
882 Min_samples_leaf = 20  
883 #####  
884 Fold 1 running...  
885 Fitting model...  
886 Generating predictions...  
887 Converting into submission format...  
888 Calling scoring function...  
889 Matching true booking_bool/click_bool values to  
     submission...
```

File - model_test

```
890 Calculating NDCG_5 score...
891 Finished!
892 Fold 1 finished!
893 Prediction scores for 1 folds are:
894 [0.34669717506635367]
895
896 WOW! 45.83% done! :D
897
898 CURRENT CONFIGURATION
899 ######
# #####
900 DATA PARAMETERS:
901 Target = score
902 Max_rank = 10
903 Prediction weight: 3
904 RANDOM FOREST PARAMETERS:
905 Type estimator: classifier
906 N_trees = 350
907 Max_features = sqrt
908 Max depth = 20
909 Min_samples_leaf = 1
910 ######
# #####
911 Fold 1 running...
912 Fitting model...
913 Generating predictions...
914 Converting into submission format...
915 Calling scoring function...
916 Matching true booking_bool/click_bool values to
    submission...
917 Calculating NDCG_5 score...
918 Finished!
919 Fold 1 finished!
920 Prediction scores for 1 folds are:
921 [0.3481004350129684]
922
923 WOW! 47.22% done! :D
924
925 CURRENT CONFIGURATION
926 ######
# #####
927 DATA PARAMETERS:
928 Target = score
929 Max_rank = 10
930 Prediction weight: 3
```

File - model_test

```
931 RANDOM FOREST PARAMETERS:  
932 Type estimator: classifier  
933 N_trees = 350  
934 Max_features = sqrt  
935 Max depth = 40  
936 Min_samples_leaf = 20  
937 #####  
938 Fold 1 running...  
939 Fitting model...  
940 Generating predictions...  
941 Converting into submission format...  
942 Calling scoring function...  
943 Matching true booking_bool/click_bool values to  
    submission...  
944 Calculating NDCG_5 score...  
945 Finished!  
946 Fold 1 finished!  
947 Prediction scores for 1 folds are:  
948 [0.3464214957914472]  
949  
950 WOW! 48.61% done! :D  
951  
952 CURRENT CONFIGURATION  
953 #####  
954 DATA PARAMETERS:  
955 Target = score  
956 Max_rank = 10  
957 Prediction weight: 3  
958 RANDOM FOREST PARAMETERS:  
959 Type estimator: classifier  
960 N_trees = 350  
961 Max_features = sqrt  
962 Max depth = 40  
963 Min_samples_leaf = 1  
964 #####  
965 Fold 1 running...  
966 Fitting model...  
967 Generating predictions...  
968 Converting into submission format...  
969 Calling scoring function...  
970 Matching true booking_bool/click_bool values to  
    submission...
```

```
971 Calculating NDCG_5 score...
972 Finished!
973 Fold 1 finished!
974 Prediction scores for 1 folds are:
975 [0.3467640813774045]
976
977 WOW! 50.0% done! :D
978
979 CURRENT CONFIGURATION
980 #####
981 DATA PARAMETERS:
982 Target = score
983 Max_rank = 10
984 Prediction weight: 3
985 RANDOM FOREST PARAMETERS:
986 Type estimator: classifier
987 N_trees = 350
988 Max_features = sqrt
989 Max depth = 60
990 Min_samples_leaf = 20
991 #####
992 Fold 1 running...
993 Fitting model...
994 Generating predictions...
995 Converting into submission format...
996 Calling scoring function...
997 Matching true booking_bool/click_bool values to
    submission...
998 Calculating NDCG_5 score...
999 Finished!
1000 Fold 1 finished!
1001 Prediction scores for 1 folds are:
1002 [0.3474554133861023]
1003
1004 WOW! 51.39% done! :D
1005
1006 CURRENT CONFIGURATION
1007 #####
1008 DATA PARAMETERS:
1009 Target = score
1010 Max_rank = 10
1011 Prediction weight: 3
```

File - model_test

```
1012 RANDOM FOREST PARAMETERS:  
1013 Type estimator: classifier  
1014 N_trees = 350  
1015 Max_features = sqrt  
1016 Max_depth = 60  
1017 Min_samples_leaf = 1  
1018 #####  
1019 Fold 1 running...  
1020 Fitting model...  
1021 Generating predictions...  
1022 Converting into submission format...  
1023 Calling scoring function...  
1024 Matching true booking_bool/click_bool values to  
    submission...  
1025 Calculating NDCG_5 score...  
1026 Finished!  
1027 Fold 1 finished!  
1028 Prediction scores for 1 folds are:  
1029 [0.3473999834344724]  
1030  
1031 WOW! 52.78% done! :D  
1032  
1033 CURRENT CONFIGURATION  
1034 #####  
1035 DATA PARAMETERS:  
1036 Target = score  
1037 Max_rank = 10  
1038 Prediction_weight: 3  
1039 RANDOM FOREST PARAMETERS:  
1040 Type estimator: classifier  
1041 N_trees = 350  
1042 Max_features = sqrt  
1043 Max_depth = None  
1044 Min_samples_leaf = 20  
1045 #####  
1046 Fold 1 running...  
1047 Fitting model...  
1048 Generating predictions...  
1049 Converting into submission format...  
1050 Calling scoring function...  
1051 Matching true booking_bool/click_bool values to  
    submission...
```

```
1052 Calculating NDCG_5 score...
1053 Finished!
1054 Fold 1 finished!
1055 Prediction scores for 1 folds are:
1056 [0.3459932998498733]
1057
1058 WOW! 54.17% done! :D
1059
1060 CURRENT CONFIGURATION
1061 #####
1062 DATA PARAMETERS:
1063 Target = score
1064 Max_rank = 10
1065 Prediction weight: 3
1066 RANDOM FOREST PARAMETERS:
1067 Type estimator: classifier
1068 N_trees = 350
1069 Max_features = sqrt
1070 Max depth = None
1071 Min_samples_leaf = 1
1072 #####
1073 Fold 1 running...
1074 Fitting model...
1075 Generating predictions...
1076 Converting into submission format...
1077 Calling scoring function...
1078 Matching true booking_bool/click_bool values to
    submission...
1079 Calculating NDCG_5 score...
1080 Finished!
1081 Fold 1 finished!
1082 Prediction scores for 1 folds are:
1083 [0.3488241337430015]
1084
1085 WOW! 55.56% done! :D
1086
1087 CURRENT CONFIGURATION
1088 #####
1089 DATA PARAMETERS:
1090 Target = score
1091 Max_rank = 10
1092 Prediction weight: 3
```

```
1093 RANDOM FOREST PARAMETERS:  
1094 Type estimator: classifier  
1095 N_trees = 500  
1096 Max_features = sqrt  
1097 Max_depth = 20  
1098 Min_samples_leaf = 20  
1099 #####  
1100 Fold 1 running...  
1101 Fitting model...  
1102 Generating predictions...  
1103 Converting into submission format...  
1104 Calling scoring function...  
1105 Matching true booking_bool/click_bool values to  
    submission...  
1106 Calculating NDCG_5 score...  
1107 Finished!  
1108 Fold 1 finished!  
1109 Prediction scores for 1 folds are:  
1110 [0.3477736592631439]  
1111  
1112 WOW! 56.94% done! :D  
1113  
1114 CURRENT CONFIGURATION  
1115 #####  
1116 DATA PARAMETERS:  
1117 Target = score  
1118 Max_rank = 10  
1119 Prediction weight: 3  
1120 RANDOM FOREST PARAMETERS:  
1121 Type estimator: classifier  
1122 N_trees = 500  
1123 Max_features = sqrt  
1124 Max_depth = 20  
1125 Min_samples_leaf = 1  
1126 #####  
1127 Fold 1 running...  
1128 Fitting model...  
1129 Generating predictions...  
1130 Converting into submission format...  
1131 Calling scoring function...  
1132 Matching true booking_bool/click_bool values to  
    submission...
```

```
1133 Calculating NDCG_5 score...
1134 Finished!
1135 Fold 1 finished!
1136 Prediction scores for 1 folds are:
1137 [0.3475113299324816]
1138
1139 WOW! 58.33% done! :D
1140
1141 CURRENT CONFIGURATION
1142 ######
1143 DATA PARAMETERS:
1144 Target = score
1145 Max_rank = 10
1146 Prediction weight: 3
1147 RANDOM FOREST PARAMETERS:
1148 Type estimator: classifier
1149 N_trees = 500
1150 Max_features = sqrt
1151 Max_depth = 40
1152 Min_samples_leaf = 20
1153 ######
1154 Fold 1 running...
1155 Fitting model...
1156 Generating predictions...
1157 Converting into submission format...
1158 Calling scoring function...
1159 Matching true booking_bool/click_bool values to
    submission...
1160 Calculating NDCG_5 score...
1161 Finished!
1162 Fold 1 finished!
1163 Prediction scores for 1 folds are:
1164 [0.34592866771404795]
1165
1166 WOW! 59.72% done! :D
1167
1168 CURRENT CONFIGURATION
1169 ######
1170 DATA PARAMETERS:
1171 Target = score
1172 Max_rank = 10
1173 Prediction weight: 3
```

```
1174 RANDOM FOREST PARAMETERS:  
1175 Type estimator: classifier  
1176 N_trees = 500  
1177 Max_features = sqrt  
1178 Max_depth = 40  
1179 Min_samples_leaf = 1  
1180 #####  
1181 Fold 1 running...  
1182 Fitting model...  
1183 Generating predictions...  
1184 Converting into submission format...  
1185 Calling scoring function...  
1186 Matching true booking_bool/click_bool values to  
    submission...  
1187 Calculating NDCG_5 score...  
1188 Finished!  
1189 Fold 1 finished!  
1190 Prediction scores for 1 folds are:  
1191 [0.3493271696747142]  
1192  
1193 WOW! 61.11% done! :D  
1194  
1195 CURRENT CONFIGURATION  
1196 #####  
1197 DATA PARAMETERS:  
1198 Target = score  
1199 Max_rank = 10  
1200 Prediction_weight: 3  
1201 RANDOM FOREST PARAMETERS:  
1202 Type estimator: classifier  
1203 N_trees = 500  
1204 Max_features = sqrt  
1205 Max_depth = 60  
1206 Min_samples_leaf = 20  
1207 #####  
1208 Fold 1 running...  
1209 Fitting model...  
1210 Generating predictions...  
1211 Converting into submission format...  
1212 Calling scoring function...  
1213 Matching true booking_bool/click_bool values to  
    submission...
```

```
1214 Calculating NDCG_5 score...
1215 Finished!
1216 Fold 1 finished!
1217 Prediction scores for 1 folds are:
1218 [0.3455580587224834]
1219
1220 WOW! 62.5% done! :D
1221
1222 CURRENT CONFIGURATION
1223 ##########
1224 DATA PARAMETERS:
1225 Target = score
1226 Max_rank = 10
1227 Prediction weight: 3
1228 RANDOM FOREST PARAMETERS:
1229 Type estimator: classifier
1230 N_trees = 500
1231 Max_features = sqrt
1232 Max depth = 60
1233 Min_samples_leaf = 1
1234 ##########
1235 Fold 1 running...
1236 Fitting model...
1237 Generating predictions...
1238 Converting into submission format...
1239 Calling scoring function...
1240 Matching true booking_bool/click_bool values to
    submission...
1241 Calculating NDCG_5 score...
1242 Finished!
1243 Fold 1 finished!
1244 Prediction scores for 1 folds are:
1245 [0.3489675259844029]
1246
1247 WOW! 63.89% done! :D
1248
1249 CURRENT CONFIGURATION
1250 ##########
1251 DATA PARAMETERS:
1252 Target = score
1253 Max_rank = 10
1254 Prediction weight: 3
```

```
1255 RANDOM FOREST PARAMETERS:  
1256 Type estimator: classifier  
1257 N_trees = 500  
1258 Max_features = sqrt  
1259 Max_depth = None  
1260 Min_samples_leaf = 20  
1261 #####  
1262 Fold 1 running...  
1263 Fitting model...  
1264 Generating predictions...  
1265 Converting into submission format...  
1266 Calling scoring function...  
1267 Matching true booking_bool/click_bool values to  
    submission...  
1268 Calculating NDCG_5 score...  
1269 Finished!  
1270 Fold 1 finished!  
1271 Prediction scores for 1 folds are:  
1272 [0.3469211890323838]  
1273  
1274 WOW! 65.28% done! :D  
1275  
1276 CURRENT CONFIGURATION  
1277 #####  
1278 DATA PARAMETERS:  
1279 Target = score  
1280 Max_rank = 10  
1281 Prediction weight: 3  
1282 RANDOM FOREST PARAMETERS:  
1283 Type estimator: classifier  
1284 N_trees = 500  
1285 Max_features = sqrt  
1286 Max_depth = None  
1287 Min_samples_leaf = 1  
1288 #####  
1289 Fold 1 running...  
1290 Fitting model...  
1291 Generating predictions...  
1292 Converting into submission format...  
1293 Calling scoring function...  
1294 Matching true booking_bool/click_bool values to  
    submission...
```

```
1295 Calculating NDCG_5 score...
1296 Finished!
1297 Fold 1 finished!
1298 Prediction scores for 1 folds are:
1299 [0.3493618483847421]
1300
1301 WOW! 66.67% done! :D
1302
1303 CURRENT CONFIGURATION
1304 #####
1305 DATA PARAMETERS:
1306 Target = score
1307 Max_rank = 10
1308 Prediction weight: 3
1309 RANDOM FOREST PARAMETERS:
1310 Type estimator: classifier
1311 N_trees = 1000
1312 Max_features = sqrt
1313 Max depth = 20
1314 Min_samples_leaf = 20
1315 #####
1316 Fold 1 running...
1317 Fitting model...
1318 Generating predictions...
1319 Converting into submission format...
1320 Calling scoring function...
1321 Matching true booking_bool/click_bool values to
    submission...
1322 Calculating NDCG_5 score...
1323 Finished!
1324 Fold 1 finished!
1325 Prediction scores for 1 folds are:
1326 [0.3454525243481953]
1327
1328 WOW! 68.06% done! :D
1329
1330 CURRENT CONFIGURATION
1331 #####
1332 DATA PARAMETERS:
1333 Target = score
1334 Max_rank = 10
1335 Prediction weight: 3
```

```
1336 RANDOM FOREST PARAMETERS:  
1337 Type estimator: classifier  
1338 N_trees = 1000  
1339 Max_features = sqrt  
1340 Max_depth = 20  
1341 Min_samples_leaf = 1  
1342 #####  
1343 Fold 1 running...  
1344 Fitting model...  
1345 Generating predictions...  
1346 Converting into submission format...  
1347 Calling scoring function...  
1348 Matching true booking_bool/click_bool values to  
    submission...  
1349 Calculating NDCG_5 score...  
1350 Finished!  
1351 Fold 1 finished!  
1352 Prediction scores for 1 folds are:  
1353 [0.34827011815087344]  
1354  
1355 WOW! 69.44% done! :D  
1356  
1357 CURRENT CONFIGURATION  
1358 #####  
1359 DATA PARAMETERS:  
1360 Target = score  
1361 Max_rank = 10  
1362 Prediction weight: 3  
1363 RANDOM FOREST PARAMETERS:  
1364 Type estimator: classifier  
1365 N_trees = 1000  
1366 Max_features = sqrt  
1367 Max_depth = 40  
1368 Min_samples_leaf = 20  
1369 #####  
1370 Fold 1 running...  
1371 Fitting model...  
1372 Generating predictions...  
1373 Converting into submission format...  
1374 Calling scoring function...  
1375 Matching true booking_bool/click_bool values to  
    submission...
```

```
1376 Calculating NDCG_5 score...
1377 Finished!
1378 Fold 1 finished!
1379 Prediction scores for 1 folds are:
1380 [0.34645639977864645]
1381
1382 WOW! 70.83% done! :D
1383
1384 CURRENT CONFIGURATION
1385 #####
1386 DATA PARAMETERS:
1387 Target = score
1388 Max_rank = 10
1389 Prediction weight: 3
1390 RANDOM FOREST PARAMETERS:
1391 Type estimator: classifier
1392 N_trees = 1000
1393 Max_features = sqrt
1394 Max depth = 40
1395 Min_samples_leaf = 1
1396 #####
1397 Fold 1 running...
1398 Fitting model...
1399 Generating predictions...
1400 Converting into submission format...
1401 Calling scoring function...
1402 Matching true booking_bool/click_bool values to
    submission...
1403 Calculating NDCG_5 score...
1404 Finished!
1405 Fold 1 finished!
1406 Prediction scores for 1 folds are:
1407 [0.3500570972220428]
1408
1409 WOW! 72.22% done! :D
1410
1411 CURRENT CONFIGURATION
1412 #####
1413 DATA PARAMETERS:
1414 Target = score
1415 Max_rank = 10
1416 Prediction weight: 3
```

```
1417 RANDOM FOREST PARAMETERS:  
1418 Type estimator: classifier  
1419 N_trees = 1000  
1420 Max_features = sqrt  
1421 Max_depth = 60  
1422 Min_samples_leaf = 20  
1423 #####  
1424 Fold 1 running...  
1425 Fitting model...  
1426 Generating predictions...  
1427 Converting into submission format...  
1428 Calling scoring function...  
1429 Matching true booking_bool/click_bool values to  
    submission...  
1430 Calculating NDCG_5 score...  
1431 Finished!  
1432 Fold 1 finished!  
1433 Prediction scores for 1 folds are:  
1434 [0.34690997817684815]  
1435  
1436 WOW! 73.61% done! :D  
1437  
1438 CURRENT CONFIGURATION  
1439 #####  
1440 DATA PARAMETERS:  
1441 Target = score  
1442 Max_rank = 10  
1443 Prediction weight: 3  
1444 RANDOM FOREST PARAMETERS:  
1445 Type estimator: classifier  
1446 N_trees = 1000  
1447 Max_features = sqrt  
1448 Max_depth = 60  
1449 Min_samples_leaf = 1  
1450 #####  
1451 Fold 1 running...  
1452 Fitting model...  
1453 Generating predictions...  
1454 Converting into submission format...  
1455 Calling scoring function...  
1456 Matching true booking_bool/click_bool values to  
    submission...
```

```
1457 Calculating NDCG_5 score...
1458 Finished!
1459 Fold 1 finished!
1460 Prediction scores for 1 folds are:
1461 [0.3505590930439457]
1462
1463 WOW! 75.0% done! :D
1464
1465 CURRENT CONFIGURATION
1466 #####
1467 DATA PARAMETERS:
1468 Target = score
1469 Max_rank = 10
1470 Prediction weight: 3
1471 RANDOM FOREST PARAMETERS:
1472 Type estimator: classifier
1473 N_trees = 1000
1474 Max_features = sqrt
1475 Max depth = None
1476 Min_samples_leaf = 20
1477 #####
1478 Fold 1 running...
1479 Fitting model...
1480 Generating predictions...
1481 Converting into submission format...
1482 Calling scoring function...
1483 Matching true booking_bool/click_bool values to
    submission...
1484 Calculating NDCG_5 score...
1485 Finished!
1486 Fold 1 finished!
1487 Prediction scores for 1 folds are:
1488 [0.34724165804275525]
1489
1490 WOW! 76.39% done! :D
1491
1492 CURRENT CONFIGURATION
1493 #####
1494 DATA PARAMETERS:
1495 Target = score
1496 Max_rank = 10
1497 Prediction weight: 3
```

```
1498 RANDOM FOREST PARAMETERS:  
1499 Type estimator: classifier  
1500 N_trees = 1000  
1501 Max_features = sqrt  
1502 Max_depth = None  
1503 Min_samples_leaf = 1  
1504 #####  
1505 Fold 1 running...  
1506 Fitting model...  
1507 Generating predictions...  
1508 Converting into submission format...  
1509 Calling scoring function...  
1510 Matching true booking_bool/click_bool values to  
    submission...  
1511 Calculating NDCG_5 score...  
1512 Finished!  
1513 Fold 1 finished!  
1514 Prediction scores for 1 folds are:  
1515 [0.351849706556095]  
1516  
1517 WOW! 77.78% done! :D  
1518  
1519 CURRENT CONFIGURATION  
1520 #####  
1521 DATA PARAMETERS:  
1522 Target = score  
1523 Max_rank = 10  
1524 Prediction weight: 3  
1525 RANDOM FOREST PARAMETERS:  
1526 Type estimator: classifier  
1527 N_trees = 2000  
1528 Max_features = sqrt  
1529 Max_depth = 20  
1530 Min_samples_leaf = 20  
1531 #####  
1532 Fold 1 running...  
1533 Fitting model...  
1534 Generating predictions...  
1535 Converting into submission format...  
1536 Calling scoring function...  
1537 Matching true booking_bool/click_bool values to  
    submission...
```

```
1538 Calculating NDCG_5 score...
1539 Finished!
1540 Fold 1 finished!
1541 Prediction scores for 1 folds are:
1542 [0.3470846591788325]
1543
1544 WOW! 79.17% done! :D
1545
1546 CURRENT CONFIGURATION
1547 ######
1548 DATA PARAMETERS:
1549 Target = score
1550 Max_rank = 10
1551 Prediction weight: 3
1552 RANDOM FOREST PARAMETERS:
1553 Type estimator: classifier
1554 N_trees = 2000
1555 Max_features = sqrt
1556 Max_depth = 20
1557 Min_samples_leaf = 1
1558 #####
1559 Fold 1 running...
1560 Fitting model...
1561 Generating predictions...
1562 Converting into submission format...
1563 Calling scoring function...
1564 Matching true booking_bool/click_bool values to
    submission...
1565 Calculating NDCG_5 score...
1566 Finished!
1567 Fold 1 finished!
1568 Prediction scores for 1 folds are:
1569 [0.34891582070715244]
1570
1571 WOW! 80.56% done! :D
1572
1573 CURRENT CONFIGURATION
1574 #####
1575 DATA PARAMETERS:
1576 Target = score
1577 Max_rank = 10
1578 Prediction weight: 3
```

```
1579 RANDOM FOREST PARAMETERS:  
1580 Type estimator: classifier  
1581 N_trees = 2000  
1582 Max_features = sqrt  
1583 Max_depth = 40  
1584 Min_samples_leaf = 20  
1585 #####  
1586 Fold 1 running...  
1587 Fitting model...  
1588 Generating predictions...  
1589 Converting into submission format...  
1590 Calling scoring function...  
1591 Matching true booking_bool/click_bool values to  
    submission...  
1592 Calculating NDCG_5 score...  
1593 Finished!  
1594 Fold 1 finished!  
1595 Prediction scores for 1 folds are:  
1596 [0.3470310908257748]  
1597  
1598 WOW! 81.94% done! :D  
1599  
1600 CURRENT CONFIGURATION  
1601 #####  
1602 DATA PARAMETERS:  
1603 Target = score  
1604 Max_rank = 10  
1605 Prediction weight: 3  
1606 RANDOM FOREST PARAMETERS:  
1607 Type estimator: classifier  
1608 N_trees = 2000  
1609 Max_features = sqrt  
1610 Max_depth = 40  
1611 Min_samples_leaf = 1  
1612 #####  
1613 Fold 1 running...  
1614 Fitting model...  
1615 Generating predictions...  
1616 Converting into submission format...  
1617 Calling scoring function...  
1618 Matching true booking_bool/click_bool values to  
    submission...
```

```
1619 Calculating NDCG_5 score...
1620 Finished!
1621 Fold 1 finished!
1622 Prediction scores for 1 folds are:
1623 [0.3504719305809017]
1624
1625 WOW! 83.33% done! :D
1626
1627 CURRENT CONFIGURATION
1628 #####
1629 DATA PARAMETERS:
1630 Target = score
1631 Max_rank = 10
1632 Prediction weight: 3
1633 RANDOM FOREST PARAMETERS:
1634 Type estimator: classifier
1635 N_trees = 2000
1636 Max_features = sqrt
1637 Max depth = 60
1638 Min_samples_leaf = 20
1639 #####
1640 Fold 1 running...
1641 Fitting model...
1642 Generating predictions...
1643 Converting into submission format...
1644 Calling scoring function...
1645 Matching true booking_bool/click_bool values to
    submission...
1646 Calculating NDCG_5 score...
1647 Finished!
1648 Fold 1 finished!
1649 Prediction scores for 1 folds are:
1650 [0.3472551692620826]
1651
1652 WOW! 84.72% done! :D
1653
1654 CURRENT CONFIGURATION
1655 #####
1656 DATA PARAMETERS:
1657 Target = score
1658 Max_rank = 10
1659 Prediction weight: 3
```

```
1660 RANDOM FOREST PARAMETERS:  
1661 Type estimator: classifier  
1662 N_trees = 2000  
1663 Max_features = sqrt  
1664 Max_depth = 60  
1665 Min_samples_leaf = 1  
1666 #####  
1667 Fold 1 running...  
1668 Fitting model...  
1669 Generating predictions...  
1670 Converting into submission format...  
1671 Calling scoring function...  
1672 Matching true booking_bool/click_bool values to  
    submission...  
1673 Calculating NDCG_5 score...  
1674 Finished!  
1675 Fold 1 finished!  
1676 Prediction scores for 1 folds are:  
1677 [0.35049655845525923]  
1678  
1679 WOW! 86.11% done! :D  
1680  
1681 CURRENT CONFIGURATION  
1682 #####  
1683 DATA PARAMETERS:  
1684 Target = score  
1685 Max_rank = 10  
1686 Prediction weight: 3  
1687 RANDOM FOREST PARAMETERS:  
1688 Type estimator: classifier  
1689 N_trees = 2000  
1690 Max_features = sqrt  
1691 Max_depth = None  
1692 Min_samples_leaf = 20  
1693 #####  
1694 Fold 1 running...  
1695 Fitting model...  
1696 Generating predictions...  
1697 Converting into submission format...  
1698 Calling scoring function...  
1699 Matching true booking_bool/click_bool values to  
    submission...
```

```
1700 Calculating NDCG_5 score...
1701 Finished!
1702 Fold 1 finished!
1703 Prediction scores for 1 folds are:
1704 [0.3487580073980896]
1705
1706 WOW! 87.5% done! :D
1707
1708 CURRENT CONFIGURATION
1709 #####
1710 DATA PARAMETERS:
1711 Target = score
1712 Max_rank = 10
1713 Prediction weight: 3
1714 RANDOM FOREST PARAMETERS:
1715 Type estimator: classifier
1716 N_trees = 2000
1717 Max_features = sqrt
1718 Max depth = None
1719 Min_samples_leaf = 1
1720 #####
1721 Fold 1 running...
1722 Fitting model...
1723 Generating predictions...
1724 Converting into submission format...
1725 Calling scoring function...
1726 Matching true booking_bool/click_bool values to
    submission...
1727 Calculating NDCG_5 score...
1728 Finished!
1729 Fold 1 finished!
1730 Prediction scores for 1 folds are:
1731 [0.3492573577565261]
1732
1733 Process finished with exit code 0
1734
```