Full Model:

1. GlobalVec+RobertaTiny

top_k=2, thresh=thresh_full-0.07 threshold_reader=0.6 para = 0.6458985571710081 qa=0.6362719419258788 data=5% all themes hardware=cpu

2. GlobalVec(Improved Embeddings)+RobertaTiny+Ranker(Tiny Bert) (Ram Overflow 2 cores used + data leak)

top_k=15
top_k_ranker=2
thresh=thresh_full-0.05
threshold_reader=0.075
para =0.742513878558783
qa=0.7139960368581451

data=25% all themes

hardware=cpu

GlobalVec+RobertaTiny

top_k=3 thresh=thresh_full-0.07 threshold_reader=0.5 para = 0.6954258812917128 qa=0.6815802420683021 data=5% all themes

data=5% all themes hardware=cpu

4. GlobalVec+RobertaTiny

top_k=1 thresh=thresh_full-0.07 threshold_reader=0.5 para = 0.6741059191921305 qa=0.6602505412157016 data=5% all themes hardware=cpu

5. GlobalVec+RobertaTiny

top_k=4 thresh=thresh_full-0.07 threshold_reader=0.5 para = 0.6966179499535827 qa=0.682502088894094 data=5% all themes

6. GlobalVec+RobertaTiny

hardware=cpu

top_k=3
thresh=thresh_full-0.1
threshold_reader=0.5
para =0.6952249977722628
qa=0.6813788914167123
data=5% all themes
hardware=cpu

7. GlobalVec+RobertaTiny

top_k=1 thresh=thresh_full-0.05 threshold_reader=0.5 para = 0.6741059191921305 qa=0.6602505412157016 data=5% all themes hardware=cpu

8. GlobalVec+RobertaTiny

top_k=2 thresh=thresh_full-0.07 threshold_reader=0.35 para =0.6741059191921305 qa=0.6602505412157016 data=5% all themes hardware=cpu

9. GlobalVec+RobertaTiny

top_k=3 thresh=thresh_full-0.07 threshold_reader=0.7 para =running qa=running data=5% all themes hardware=cpu

10 GlobalVec+RobertaTiny

top_k=3 thresh=thresh_full-0.05 threshold_reader=0.35 para =0.7288286794196733 qa=0.7085380036597979 data=5% all themes hardware=cpu

11. GlobalVec+RobertaTiny

top_k=3 thresh=thresh_full-0.07 threshold_reader=0.5 para =0.6449920677622732 qa=0.6377547338601838 data=25% all themes hardware=cpu

12. GlobalVec+RobertaTiny

top_k=3 thresh=thresh_full-0.05 threshold_reader=0.70 para =0.6103100576131645 qa=0.6033115170397494 data=5% all themes hardware=cpu

13. Doc2Vec+RobertaTiny

top_k=2 thresh=theme_wise threshold_reader=0.5 para =0.560000171905769 qa=0.548977507267844 data=5% all themes hardware=cpu

14. GlobalVec+RobertaTiny

top_k=3 thresh=thresh_full-0.05 threshold_reader=0.35

para =0.6756364053960021

qa= 0.6627984347580687

data=25% all themes

hardware=cpu

15. GlobalVec+RobertaTiny

top_k=2

thresh=thresh_full-0.07

threshold_reader=0.35

para =0.6663509523201652

qa=0.6535314683276136

data=25% all themes

hardware=cpu

16. GlobalVec+RobertaTiny

top_k=2

thresh=thresh_full-0.05

threshold_reader=0.25

para =0.6779530305262029

qa=0.6617842747997061

data=25% all themes

hardware=cpu

17. GlobalVec+RobertaTiny

top k=2

thresh=thresh_full-0.05

threshold_reader=0.15

para =0.6837325670323752

qa=0.6647719761362754

data=25% all themes

hardware=cpu

18. GlobalVec+RobertaTiny

top_k=3 thresh=thresh_full-0.05 threshold_reader=0.15 para =0.6912187026004518 qa=0.6719628223676353 data=25% all themes hardware=cpu

19. GlobalVec+RobertaTiny

top_k=3 thresh=thresh_full-0.05 threshold_reader=0.25 para =0.6895109246338008 qa=0.6731015987217104 data=25% all themes hardware=cpu

20. GlobalVec+RobertaTiny+Ranker(Tiny Bert)

top_k=15 top_k_ranker=3 thresh=thresh_full-0.05 threshold_reader=0.15 para =0.7249659889034914 qa=0.7037043425858692 data=25% all themes hardware=cpu

21. GlobalVec+RobertaTiny+Ranker(Tiny Bert)

top_k=15
top_k_ranker=2
thresh=thresh_full-0.05
threshold_reader=0.15
para =0.7290986607175562
qa=0.7058415069921505
data=25% all themes
hardware=cpu

22. GlobalVec+RobertaTiny+Ranker(Tiny Bert)

top_k=15

top_k_ranker=1

thresh=thresh_full-0.05

threshold_reader=0.15

para =0.7279487872119916

qa=0.7032868320919099

data=25% all themes

hardware=cpu

23. GlobalVec+RobertaTiny+Ranker(Tiny Bert)

top_k=15

top_k_ranker=2

thresh=thresh_full-0.05

threshold_reader=0.075

para =0.7330864221765446

qa=0.707534178678867

data=25% all themes

hardware=cpu

24. GlobalVec+RobertaTiny+Ranker(Tiny Bert)

top_k=15

top_k_ranker=2

thresh=thresh_full-0.05

threshold_reader=0.25

para = running

qa=running

data=25% all themes

hardware=cpu

25. GlobalVec+RobertaTiny+Ranker(MiniLM-L-4-v2t)

top_k=15

top_k_ranker=2

thresh=thresh full-0.05

threshold_reader=0.15

para =0.694558242416869

qa=0.6721711816124057

data=25% all themes

hardware=cpu

26. GlobalVec+RobertaTiny+Ranker(MiniLM-L-4-v2t)

top_k=15

top_k_ranker=2

thresh=thresh full-0.05

threshold_reader=0.075

para =0.7276721305155048

qa=0.7020098095542826

data=25% all themes

hardware=cpu

27. GlobalVec+RobertaTiny+Ranker(Tiny Bert)

top k=30

top_k_ranker=2

thresh=thresh full-0.05

threshold_reader=0.075

para = 0.7327034714509845

qa=0.7071457673663232

data=25% all themes

hardware=cpu

28. GlobalVec+RobertaTiny+Ranker(Tiny Bert)

top_k=10

top_k_ranker=2

thresh=thresh_full-0.05

threshold reader=0.075

para =0.729279853884327

qa=0.704221899469189

data=25% all themes

hardware=cpu

29. GlobalVec+RobertaTiny+Ranker(Tiny Bert)

top_k=20

top_k_ranker=2

thresh=thresh full-0.05

threshold_reader=0.075

para =0.7330142055686361

qa=0.7075152690473565

data=25% all themes

hardware=cpu

30. GlobalVec+RobertaTiny+Ranker(Tiny Bert)

top_k=15 top_k_ranker=2 thresh=thresh_full-0.1 threshold_reader=0.075 para =0.7330864221765446 qa=0.707534178678867 data=25% all themes hardware=cpu

31. GlobalVec+RobertaTiny+Ranker(Tiny Bert)

top_k=15 top_k_ranker=2 thresh=thresh_full-0.25 threshold_reader=0.075 para =0.7317864444653837 qa=0.7062656017674773 data=25% all themes hardware=cpu

32. GlobalVec+RobertaTiny+Ranker(Tiny Bert)

top_k=15 top_k_ranker=2 thresh=thresh_full-0.15 threshold_reader=0.075 para =0.7330864221765446 qa=0.707534178678867 data=25% all themes hardware=cpu

33. GlobalVec+RobertaTiny+Ranker(Tiny Bert)

top_k=15 top_k_ranker=2 thresh=thresh_full-0.15 threshold_reader=0.025 para =0.7338431256479413 qa=0.7065891223565033 data=25% all themes hardware=cpu

34. GlobalVec+RobertaTiny+Ranker(Tiny Bert)

top_k=15 top_k_ranker=2 thresh=theme_wise-0.07 threshold_reader=0.025 para =0.7418304567695047 qa=0.7152848985321273 data=25% all themes hardware=cpu

35. GlobalVec+RobertaTiny+Ranker(Tiny Bert)+ImprovedEmbedding

top_k=15 top_k_ranker=2 thresh=theme_wise-0.07 threshold_reader=0.025 para =0.5227635023157647 qa=0.512949116363979 data=25%(of 25% data) all themes hardware=cpu

Colab Inference Models:

1. GlobalVec+RobertaTiny+Ranker(Tiny Bert)

top_k=10
top_k_ranker=2
thresh=thresh_full-0.05
threshold_reader=0.075
para =0.7334359687280833
qa=0.7061938993463653
data=25% all themes
hardware=cpu

2. GlobalVec+RobertaTiny+Ranker(Tiny Bert)

top_k=10 top_k_ranker=1 thresh=thresh_full-0.05 threshold_reader=0.075 para =0.7295122442917081 qa=0.703007943999591 data=25% all themes hardware=cpu

Semi Model:

1. Doc2Vec+ RobertaTiny

top_k= 2

thresh_retriever= thresh_semi having separate thresholds for separate themes

threshold reader= 0.6

para= 0.40652079993854573

qa= 0.40326583124108345

data= 5% all themes

hardware = CPU

Retriever:

//Update here

Reader:

//Update here