

	Base Emb Size (*Emb<Hid)	Base Batch Size (Used 2^)	Alt 1 - Emb	Alt 1 - Batch Size	Alt 2 - Emb	Alt 2 - Batch Size	Alt 3 - Emb	Alt 3 - Batch Size
BERT	768	16	512 (0002)	16	384 (0059)	16		
DistilBERT	768	64	512	64	384	64		
TinyBert	312	128	512 (0002)	128	384 (0059)	128	768 (0059)	128
Electra	(*128)256	64	512 (0002)	64	384 (0059)	64	768 (0002)	64
BERT	768	512	384	-				
DistilBERT	768	512	384	-				
TinyBert	768	512	384	312				
Electra	768	512	384	256				
BERT	704	640						
DistilBERT	704	640						
TinyBert	1536							
Electra	1536							
----- NICE TO HAVE -----							Luuk	
	Base Emb Size	Batch					Andrew	
DistilBERT	768	16	Change model n:	Change CSV name	CHANGE BACK MODEL!		To Do	
TinyBERT	312	64	Change model n:	Change CSV name	CHANGE CSV NAME!			
BERT	1536	16						
DistilBERT	1536	64						
BERT	768	8	Change model n:	Change CSV name				
TinyBERT	312	16	Change model n:	Change CSV name				
Electra	256	16	Change model n:	Change CSV name				

Efficiency	Embedding size	Total training time (epochs only)	Passage encoding + indexing time (eval)	Inference time avg (ms)	Inference time std dev (ms)	TTT Drop	PEI Drop	Inf Avg Drop	Inf Std dev										
DPR (original)	768	unknown	02:40:53	17.6924	5.3107														
BERT	1536	14:43:01	04:00:13	30.9319	10.1525	-0.00105810108	-0.4985443959	-3.442196117	-4.49526387										
	768	14:42:05	02:40:18	6.9632	1.8475	Baseline	Baseline	Baseline	Baseline										
	768 (batch 8)	17:20:03	02:32:38	16.5313	5.1495	-0.1790836089	0.04782699106	-1.374095244	-1.787280108										
	704	13:50:00	02:38:26	16.2645	5.066	0.05904581956	0.01164483261	-1.335779527	-1.742083987	0.01626448335	0.005060036415								
	640	17:26:01	02:12:44	6.2508	1.6476	-0.185847898	0.1719692244	0.1023092831	0.1082002706	0.00625075423	0.001647607144								
	512	13:44:10	02:09:26	5.6511	1.4331	0.06565895135	0.1925556249	0.1884334789	0.2243031123	0.005651089382	0.001433100318								
	384	14:03:27	02:07:46	5.2307	1.2721	0.04379782711	0.2029527968	0.2488080193	0.3114479026	0.005230650166	0.001272087163								
DistilBERT	1536	05:38:11	01:52:25	10.9135	3.5256	0.6166084081	0.2987107507	-0.5673110064	-0.908308525	0.010911348033	0.003525632333								
	768	05:42:10	01:39:30	6.6319	1.8406	0.6120925838	0.3792888334	0.04757869945	0.003734776725										
	768 (batch 16)	07:03:04	02:30:46	7.2369	1.9867	0.5203778932	0.05947182366	-0.03930664063	-0.07534506089	0.007236874332	0.001986715259								
	704	05:52:13	02:05:07	16.2861	5.7019	0.6006991025	0.2194843003	-1.338881549	-2.086278755	0.01628610746	0.005701949991								
	640	05:42:22	01:33:43	6.1464	1.7378	0.6118658479	0.4153670202	0.1173023897	0.05937753721	0.006146435324	0.001737776963								
	512	05:47:13	02:00:24	7.8952	6.2464	0.6063675012	0.2489082969	-1.557042739	-2.381001353										
	384	05:44:00	01:53:48	15.1129	5.0916	0.610014171	0.2900810979	-1.170395795	-1.75594046										
TinyBERT	312	02:40:09	00:59:12	4.616	1.1352	0.8184411904	0.6306924517	0.3370863971	0.3855480379	0.0046160203170	0.001135168705								
	312 (batch 64)	02:45:53	00:58:53	4.7822	1.5729	0.8119414265	0.6326679143	0.3132180607	0.1486332882	0.004782193199	0.001572859522								
	312 (batch 16)	03:22:46	01:00:12	4.8284	1.0436	0.770127539	0.6244541485	0.3065831801	0.4351285521	0.004828449587	0.001043609139								
	384	02:40:30	01:01:03	5.1794	1.2627	0.8180444025	0.6191515908	0.2561753217	0.3165385893	0.005179378608	0.00126266363								
	512	02:40:45	01:02:23	5.4324	1.3354	0.8177609825	0.6108338532	0.2198414522	0.2771853857	0.005432433855	0.001335424629								
	768	02:38:48	01:09:41	6.7365	1.8153	0.819971658	0.56529424	0.0325568704	0.01742895805	0.00673653697	0.001815311228								
ELECTRA	1536	02:38:20	01:28:53	11.515	3.5895	0.8205007085	0.4455188189	-0.653693704	-0.9428958051	0.01151502207	0.003589468007								
	256	04:20:16	01:06:04	4.2025	0.9214	0.7049409542	0.5878561031	0.3964700138	0.5012719892	0.004202452826	0.000921375942								
	256 (batch 16)	05:50:57	01:04:33	4.0981	0.8399	0.6021350968	0.5973175296	0.4114631204	0.5453856563	0.004098131907	0.000839943407								
	384	04:22:31	01:07:44	4.7753	1.0945	0.7023901748	0.5774589312	0.3142089844	0.4075778078	0.0047752970650	0.001094529611								
	512	04:05:35	01:12:09	5.0492	1.2113	0.7215871516	0.5499064255	0.2748736213	0.3443572395	0.0050491832530	0.001211338708								
	768	04:09:28	01:18:41	6.032	1.497	0.7171846953	0.5091495113	0.1337316176	0.1897158322	0.006031993052	0.001496973681								
	1536	04:05:39	01:39:43	9.3349	2.5234	0.7215115173	0.3779372011	-0.3406048943	-0.3658457375	0.009334899203	0.002523403818								
Performance		Acc@1	Acc@20	Acc@100	MRR	Acc@1 Drop	Acc@20 Drop	Acc@100 Drop	MRR Drop										
DPR (original)	768	0.5042210284	0.8831926324	0.9490406754	0.6135850229														
BERT	1536	0.3364543361	0.7812739831	0.9028396009	0.4559748251	0.1157724889	0.05125815471	0.02243643011	0.09196700519										
	768	0.3805065234	0.8234842671	0.923561013	0.5021566702	Baseline	Baseline	Baseline	Baseline										
	768 (batch 8)	0.3613200307	0.8007674597	0.9088257866	0.4783254735	0.05042355789	0.0275862069	0.01595479475	0.04745769232										
	704	0.3273983116	0.7754412893	0.8939370683	0.4459954856	0.1395724082	0.05834109972	0.03207578528	0.1118399655										
	640	0.3281657713	0.7729854183	0.8943975441	0.4438532241	0.1375554659	0.0613239236	0.03157719794	0.1161060871										
	512	0.3344589409	0.76838066	0.8904067536	0.4498775258	0.1210165389	0.06691519105	0.03589828818	0.1041092302										
DistilBERT	384	0.3137375288	0.7590176516	0.8897287859	0.4300087987	0.1754739814	0.07828518173	0.0365630713	0.1436760195										
	1536	0.3226400614	0.7898695318	0.9045280123	0.4446372174	0.1520774506	0.04082013048	0.02060827655	0.1145448347										
	768	0.3633154259	0.8353031466	0.9327705295	0.4897209886	0.04517950787	-0.01435228332	-0.009971746711	0.02476454529										
	768 (batch 16)	0.355180353	0.8116653876	0.9188027629	0.4758979989	0.06655909641	0.01435228332	0.005152069137	0.05229179035										
	704	0.3293937068	0.7828089025	0.9005372218	0.446658662	0.1343283582	0.04939422181	0.02492936679	0.110519309										
	640	0.3201841903	0.7806060153	0.8950115119	0.4413528124	0.158531666	0.05200372787	0.03091241482	0.121085433										
	512	0.3198772064	0.7823484267	0.9008442057	0.4412858408	0.1593384429	0.04995340168	0.02459697524	0.1212188009										
	384	0.3231005372	0.7811204912	0.8979278588	0.4422858999	0.1508672852	0.051444548	0.02775469503	0.1192272729										
TinyBERT	312	0.2471220261	0.6818112049	0.8377590177	0.3579386757	0.3505445744	0.1720410065	0.09290344025	0.2871972097										
	312 (batch 64)	0.2541826554	0.6767459708	0.8280890253	0.359974127	0.3319887051	0.1781919851	0.1033737743	0.2831437909										
	312 (batch 16)	0.2402148887	0.6488104375	0.8030698388	0.3437130651	0.3686970553	0.2121155638	0.1304636862	0.3155262381										
	384	0.2201074444	0.6452801228	0.8096969923	0.3246836117	0.4215409439	0.2164026095	0.1233172677	0.3534216891										
	512	0.2216423638	0.6465080583	0.8064466616	0.3267785659	0.4175070593	0.2149114632	0.1268073791	0.3492497754										
	768	0.2291634689	0.6497313891	0.813046815	0.3318421859	0.3977410246	0.2109972041	0.1196609606	0.3391660302										
ELECTRA	1536	0.2297774367	0.6560245587	0.8133537989	0.3345934467	0.3961274708	0.2033550792	0.1193285957	0.3336871408										
	256	0.2230237913	0.6015349194	0.7729854183	0.3159146201	0.4138765631	0.2695246971	0.1630380588	0.3708843498										
	256 (batch 16)	0.2069071374	0.5656178051	0.7318495779	0.2952662407	0.456233518	0.3131407269	0.2075785275	0.4120037467										
	384	0.1355333845	0.4675364543	0.6652340752	0.2119925797	0.6438079871	0.4322460391	0.2797074954	0.5778357787										
	512	0.1404451266	0.4799693016	0.668457406	0.2201605694	0.6308995563	0.4171481827	0.2762173841	0.5615699593										
	768	0.1493476592	0.4904067536	0.681504221	0.2310484912	0.6075030254	0.404473439	0.2620907429	0.5398876389										
	1536	0.1602455871	0.5017651573	0.6870299309	0.2408456841	0.5788624445	0.3906803355	0.2561076949	0.5203774073										
RAM usage		Change in RAM usage after FAISS indexing																	

[illegible]