

GPT-3.5-turbo:

FDA:

Experiment 1: {'overall': {'Precision': 0.928637070461137, 'Recall': 0.75875, 'F-score': 0.835141372773267}}

Experiment 2: {'overall': {'Precision': 0.928637070461137, 'Recall': 0.75875, 'F-score': 0.835141372773267}}

Experiment 3: {'overall': {'Precision': 0.928637070461137, 'Recall': 0.75875, 'F-score': 0.835141372773267}}

Experiment 4: {'overall': {'Precision': 0.9082635560298975, 'Recall': 0.9087500000000001, 'F-score': 0.9085067129004826}}

Experiment 5: {'overall': {'Precision': 0.8894665635486946, 'Recall': 0.6587500000000001, 'F-score': 0.7569174914324235}}

Experiment 6: {'overall': {'Precision': 0.8819477665562133, 'Recall': 0.88375, 'F-score': 0.8828479635155494}}

Experiment 7: {'overall': {'Precision': 0.8819477665562133, 'Recall': 0.88375, 'F-score': 0.8828479635155494}}

Experiment 8: {'overall': {'Precision': 0.8583310324131634, 'Recall': 0.88375, 'F-score': 0.8708550702080435}}

Experiment 9: {'overall': {'Precision': 0.8775618016439326, 'Recall': 0.83375, 'F-score': 0.855095081349605}}

Experiment 10: {'overall': {'Precision': 0.8775618016439326, 'Recall': 0.83375, 'F-score': 0.855095081349605}}

Experiment 11: {'overall': {'Precision': 0.9002890743712054, 'Recall': 0.7837500000000001, 'F-score': 0.8379871616718788}}

Experiment 12: {'overall': {'Precision': 0.9002890743712054, 'Recall': 0.7837500000000001, 'F-score': 0.8379871616718788}}

Experiment 13: {'overall': {'Precision': 0.9053395794217104, 'Recall': 0.85875, 'F-score': 0.8814295746628179}}

Experiment 14: {'overall': {'Precision': 0.9053395794217104, 'Recall': 0.85875, 'F-score': 0.8814295746628179}}

Experiment 15: {'overall': {'Precision': 0.9305921046742357, 'Recall': 0.8087500000000001, 'F-score': 0.8654034909322764}}

Experiment 16: {'overall': {'Precision': 0.9002890743712054, 'Recall': 0.7837500000000001, 'F-score': 0.8379871616718788}}

Experiment 17: {'overall': {'Precision': 0.898395134977266, 'Recall': 0.75875, 'F-score': 0.8226887244530359}}

Experiment 18: {'overall': {'Precision': 0.8819477665562133, 'Recall': 0.88375, 'F-score': 0.8828479635155494}}

Experiment 19: {'overall': {'Precision': 0.9082635560298975, 'Recall': 0.9087500000000001, 'F-score': 0.9085067129004826}}

Experiment 20: {'overall': {'Precision': 0.9082635560298975, 'Recall': 0.9087500000000001, 'F-score': 0.9085067129004826}}

Non-FDA:

Experiment 1: {'overall': {'Precision': 0.8766033115319329, 'Recall': 0.8788235294117644, 'F-score': 0.8777120164351441}}

Experiment 2: {'overall': {'Precision': 0.8766033115319329, 'Recall':

0.8788235294117644, 'F-score': 0.8777120164351441}}

Experiment 3: {'overall': {'Precision': 0.8592872942159157, 'Recall': 0.7905882352941174, 'F-score': 0.8235074869515322}}

Experiment 4: {'overall': {'Precision': 0.905995758165759, 'Recall': 0.7847058823529409, 'F-score': 0.8410001904314355}}

Experiment 5: {'overall': {'Precision': 0.9041016348049041, 'Recall': 0.7670588235294115, 'F-score': 0.8299611600859609}}

Experiment 6: {'overall': {'Precision': 0.87539776602259, 'Recall': 0.8258823529411762, 'F-score': 0.8499194914504069}}

Experiment 7: {'overall': {'Precision': 0.8598484614437495, 'Recall': 0.8317647058823526, 'F-score': 0.8455734637803065}}

Experiment 8: {'overall': {'Precision': 0.8866765716051931, 'Recall': 0.8258823529411762, 'F-score': 0.8552003937021726}}

Experiment 9: {'overall': {'Precision': 0.8766033115319329, 'Recall': 0.8788235294117644, 'F-score': 0.8777120164351441}}

Experiment 10: {'overall': {'Precision': 0.8766033115319329, 'Recall': 0.8788235294117644, 'F-score': 0.8777120164351441}}

Experiment 11: {'overall': {'Precision': 0.8660213009499224, 'Recall': 0.8376470588235292, 'F-score': 0.8515978963366944}}

Experiment 12: {'overall': {'Precision': 0.8631208100976243, 'Recall': 0.8552941176470585, 'F-score': 0.859189640146032}}

Experiment 13: {'overall': {'Precision': 0.9177288526574741, 'Recall': 0.8435294117647056, 'F-score': 0.8790661709066596}}

Experiment 14: {'overall': {'Precision': 0.9007142217187926, 'Recall': 0.8494117647058821, 'F-score': 0.8743110638895408}}

Experiment 15: {'overall': {'Precision': 0.8887326915858413, 'Recall': 0.8435294117647056, 'F-score': 0.8655412631834986}}

Experiment 16: {'overall': {'Precision': 0.8866765716051931, 'Recall': 0.8258823529411762, 'F-score': 0.8552003937021726}}

Experiment 17: {'overall': {'Precision': 0.8845398194684408, 'Recall': 0.8082352941176468, 'F-score': 0.8446677829901683}}

Experiment 18: {'overall': {'Precision': 0.9177288526574741, 'Recall': 0.8435294117647056, 'F-score': 0.8790661709066596}}

Experiment 19: {'overall': {'Precision': 0.8413652162938378, 'Recall': 0.8788235294117644, 'F-score': 0.8596865323686845}}

Experiment 20: {'overall': {'Precision': 0.835650930579552, 'Recall': 0.872941176470588, 'F-score': 0.8538891212815942}}

BERT:

FDA:

BERT Classification Report\_2048 Overall.csv: {'overall': {'precision': 0.8648648648648649, 'recall': 0.8, 'f1-score': 0.8311688311688312}}

BERT Classification Report\_1024 Overall.csv: {'overall': {'precision': 0.8857142857142857, 'recall': 0.775, 'f1-score': 0.8266666666666667}}

BERT Classification Report\_904727489 Overall.csv: {'overall': {'precision': 0.875, 'recall': 0.7, 'f1-score': 0.7777777777777777}}

BERT Classification Report\_888888 Overall.csv: {'overall': {'precision':

0.902439024390244, 'recall': 0.925, 'f1-score': 0.9135802469135802}}  
BERT Classification Report\_1234 Overall.csv: {'overall': {'precision': 0.875, 'recall': 0.875, 'f1-score': 0.875}}  
BERT Classification Report\_4096 Overall.csv: {'overall': {'precision': 0.9090909090909092, 'recall': 0.75, 'f1-score': 0.821917808219178}}  
BERT Classification Report\_512 Overall.csv: {'overall': {'precision': 0.918918918918919, 'recall': 0.85, 'f1-score': 0.8831168831168831}}  
BERT Classification Report\_32768 Overall.csv: {'overall': {'precision': 0.945945945945946, 'recall': 0.875, 'f1-score': 0.9090909090909092}}  
BERT Classification Report\_256 Overall.csv: {'overall': {'precision': 0.8780487804878049, 'recall': 0.9, 'f1-score': 0.8888888888888889}}  
BERT Classification Report\_55555 Overall.csv: {'overall': {'precision': 0.868421052631579, 'recall': 0.825, 'f1-score': 0.8461538461538461}}  
BERT Classification Report\_42 Overall.csv: {'overall': {'precision': 0.8461538461538461, 'recall': 0.825, 'f1-score': 0.8354430379746836}}  
BERT Classification Report\_16384 Overall.csv: {'overall': {'precision': 0.9142857142857144, 'recall': 0.8, 'f1-score': 0.8533333333333333}}  
BERT Classification Report\_6742 Overall.csv: {'overall': {'precision': 0.8409090909090909, 'recall': 0.925, 'f1-score': 0.8809523809523809}}  
BERT Classification Report\_65536 Overall.csv: {'overall': {'precision': 0.8297872340425532, 'recall': 0.975, 'f1-score': 0.896551724137931}}  
BERT Classification Report\_262144 Overall.csv: {'overall': {'precision': 0.868421052631579, 'recall': 0.825, 'f1-score': 0.8461538461538461}}  
BERT Classification Report\_98765 Overall.csv: {'overall': {'precision': 0.85, 'recall': 0.85, 'f1-score': 0.85}}  
BERT Classification Report\_56789 Overall.csv: {'overall': {'precision': 0.8222222222222222, 'recall': 0.925, 'f1-score': 0.8705882352941177}}  
BERT Classification Report\_8192 Overall.csv: {'overall': {'precision': 0.8947368421052632, 'recall': 0.85, 'f1-score': 0.8717948717948718}}  
BERT Classification Report\_116384 Overall.csv: {'overall': {'precision': 0.8444444444444444, 'recall': 0.95, 'f1-score': 0.8941176470588236}}  
BERT Classification Report\_131072 Overall.csv: {'overall': {'precision': 0.8787878787878788, 'recall': 0.725, 'f1-score': 0.7945205479452054}}  
Non-FDA:  
BERT Classification Report\_2048 Overall.csv: {'overall': {'precision': 0.864406779661017, 'recall': 0.8360655737704918, 'f1-score': 0.85}}  
BERT Classification Report\_1024 Overall.csv: {'overall': {'precision': 0.8941176470588236, 'recall': 0.8306010928961749, 'f1-score': 0.8611898016997168}}  
BERT Classification Report\_904727489 Overall.csv: {'overall': {'precision': 0.8959537572254336, 'recall': 0.8469945355191257, 'f1-score': 0.8707865168539325}}  
BERT Classification Report\_888888 Overall.csv: {'overall': {'precision': 0.864406779661017, 'recall': 0.8360655737704918, 'f1-score': 0.85}}  
BERT Classification Report\_1234 Overall.csv: {'overall': {'precision': 0.8804347826086957, 'recall': 0.8852459016393442, 'f1-score': 0.88283378746594}}  
BERT Classification Report\_4096 Overall.csv: {'overall': {'precision': 0.9011627906976744, 'recall': 0.8469945355191257, 'f1-score': 0.8732394366197184}}

BERT Classification Report\_512 Overall.csv: {'overall': {'precision': 0.88268156424581, 'recall': 0.8633879781420765, 'f1-score': 0.8729281767955801}}

BERT Classification Report\_32768 Overall.csv: {'overall': {'precision': 0.8736263736263736, 'recall': 0.8688524590163934, 'f1-score': 0.8712328767123287}}

BERT Classification Report\_256 Overall.csv: {'overall': {'precision': 0.8791208791208791, 'recall': 0.8743169398907104, 'f1-score': 0.8767123287671232}}

BERT Classification Report\_55555 Overall.csv: {'overall': {'precision': 0.8556149732620321, 'recall': 0.8743169398907104, 'f1-score': 0.8648648648648648}}

BERT Classification Report\_42 Overall.csv: {'overall': {'precision': 0.8736263736263736, 'recall': 0.8688524590163934, 'f1-score': 0.8712328767123287}}

BERT Classification Report\_16384 Overall.csv: {'overall': {'precision': 0.8817204301075269, 'recall': 0.8961748633879781, 'f1-score': 0.8888888888888889}}

BERT Classification Report\_6742 Overall.csv: {'overall': {'precision': 0.8549222797927462, 'recall': 0.9016393442622952, 'f1-score': 0.8776595744680852}}

BERT Classification Report\_65536 Overall.csv: {'overall': {'precision': 0.8406593406593407, 'recall': 0.8360655737704918, 'f1-score': 0.8383561643835616}}

BERT Classification Report\_262144 Overall.csv: {'overall': {'precision': 0.8901734104046243, 'recall': 0.8415300546448088, 'f1-score': 0.8651685393258426}}

BERT Classification Report\_98765 Overall.csv: {'overall': {'precision': 0.8631578947368421, 'recall': 0.8961748633879781, 'f1-score': 0.8793565683646112}}

BERT Classification Report\_56789 Overall.csv: {'overall': {'precision': 0.8641304347826086, 'recall': 0.8688524590163934, 'f1-score': 0.8664850136239781}}

BERT Classification Report\_8192 Overall.csv: {'overall': {'precision': 0.8341708542713567, 'recall': 0.907103825136612, 'f1-score': 0.869109947643979}}

BERT Classification Report\_116384 Overall.csv: {'overall': {'precision': 0.8505154639175257, 'recall': 0.9016393442622952, 'f1-score': 0.8753315649867374}}

BERT Classification Report\_131072 Overall.csv: {'overall': {'precision': 0.8756756756756757, 'recall': 0.8852459016393442, 'f1-score': 0.8804347826086957}}

GPT-4o:

FDA:

Experiment 1: {'overall': {'Precision': 0.9040606894651011, 'Recall': 0.8987499999999999, 'F-score': 0.9013975226626129}}

Experiment 2: {'overall': {'Precision': 0.8570521424565541, 'Recall': 0.92375, 'F-score': 0.8891520261786262}}

Experiment 3: {'overall': {'Precision': 0.9310448164492281, 'Recall': 0.8987499999999999, 'F-score': 0.9146124158418306}}

Experiment 4: {'overall': {'Precision': 0.8990101844145961, 'Recall': 0.82375, 'F-score': 0.85973619092337}}

Experiment 5: {'overall': {'Precision': 0.900792715608892, 'Recall': 0.84875, 'F-score': 0.8739973143290325}}

Experiment 6: {'overall': {'Precision': 0.9293132147176264, 'Recall': 0.84875, 'F-score': 0.8872064665224485}}

Experiment 7: {'overall': {'Precision': 0.8739019593063709, 'Recall': 0.84875, 'F-score': 0.8611423612926885}}

Experiment 8: {'overall': {'Precision': 0.8739019593063709, 'Recall': 0.84875, 'F-score': 0.8611423612926885}}

Experiment 9: {'overall': {'Precision': 0.8990101844145961, 'Recall': 0.82375, 'F-score': 0.85973619092337}}

Experiment 10: {'overall': {'Precision': 0.8990101844145961, 'Recall': 0.82375, 'F-score': 0.85973619092337}}

Experiment 11: {'overall': {'Precision': 0.8785351639395756, 'Recall': 0.8987499999999999, 'F-score': 0.8885276202277891}}

Experiment 12: {'overall': {'Precision': 0.9283662450206567, 'Recall': 0.82375, 'F-score': 0.872934882613054}}

Experiment 13: {'overall': {'Precision': 0.9055621909666026, 'Recall': 0.92375, 'F-score': 0.9145656799711025}}

Experiment 14: {'overall': {'Precision': 0.9283662450206567, 'Recall': 0.82375, 'F-score': 0.872934882613054}}

Experiment 15: {'overall': {'Precision': 0.8990101844145961, 'Recall': 0.82375, 'F-score': 0.85973619092337}}

Experiment 16: {'overall': {'Precision': 0.8739019593063709, 'Recall': 0.84875, 'F-score': 0.8611423612926885}}

Experiment 17: {'overall': {'Precision': 0.9024733878777995, 'Recall': 0.8737499999999999, 'F-score': 0.8878794503436376}}

Experiment 18: {'overall': {'Precision': 0.8785351639395756, 'Recall': 0.8987499999999999, 'F-score': 0.8885276202277891}}

Experiment 19: {'overall': {'Precision': 0.8785351639395756, 'Recall': 0.8987499999999999, 'F-score': 0.8885276202277891}}

Experiment 20: {'overall': {'Precision': 0.9596162450206567, 'Recall': 0.79875, 'F-score': 0.8718246018209306}}

Non-FDA:

Experiment 1: {'overall': {'Precision': 0.9411585932591255, 'Recall': 0.8535294117647058, 'F-score': 0.8952046687035081}}

Experiment 2: {'overall': {'Precision': 0.8941500462505786, 'Recall': 0.8785294117647058, 'F-score': 0.8862709054477375}}

Experiment 3: {'overall': {'Precision': 0.9681427202432525, 'Recall': 0.8535294117647058, 'F-score': 0.9072305295713833}}

Experiment 4: {'overall': {'Precision': 0.9361080882086206, 'Recall': 0.7785294117647058, 'F-score': 0.85007784942599}}

Experiment 5: {'overall': {'Precision': 0.9378906194029164, 'Recall': 0.8035294117647058, 'F-score': 0.8655266210566752}}

Experiment 6: {'overall': {'Precision': 0.9664111185116508, 'Recall': 0.8035294117647058, 'F-score': 0.877475535812822}}

Experiment 7: {'overall': {'Precision': 0.9109998631003954, 'Recall': 0.8035294117647058, 'F-score': 0.8538963957584021}}

Experiment 8: {'overall': {'Precision': 0.9109998631003954, 'Recall': 0.8035294117647058, 'F-score': 0.8538963957584021}}

Experiment 9: {'overall': {'Precision': 0.9361080882086206, 'Recall': 0.7785294117647058, 'F-score': 0.85007784942599}}

Experiment 10: {'overall': {'Precision': 0.9361080882086206, 'Recall': 0.7785294117647058, 'F-score': 0.85007784942599}}

Experiment 11: {'overall': {'Precision': 0.9156330677336001, 'Recall': 0.8535294117647058, 'F-score': 0.8834912143474734}}

Experiment 12: {'overall': {'Precision': 0.9654641488146811, 'Recall': 0.7785294117647058, 'F-score': 0.8619782238265794}}

Experiment 13: {'overall': {'Precision': 0.9426600947606271, 'Recall': 0.8785294117647058, 'F-score': 0.9094656163752676}}

Experiment 14: {'overall': {'Precision': 0.9654641488146811, 'Recall': 0.7785294117647058, 'F-score': 0.8619782238265794}}

Experiment 15: {'overall': {'Precision': 0.9361080882086206, 'Recall': 0.7785294117647058, 'F-score': 0.85007784942599}}

Experiment 16: {'overall': {'Precision': 0.9109998631003954, 'Recall': 0.8035294117647058, 'F-score': 0.8538963957584021}}

Experiment 17: {'overall': {'Precision': 0.939571291671824, 'Recall': 0.8285294117647057, 'F-score': 0.8805634747917015}}

Experiment 18: {'overall': {'Precision': 0.9156330677336001, 'Recall': 0.8535294117647058, 'F-score': 0.8834912143474734}}

Experiment 19: {'overall': {'Precision': 0.9156330677336001, 'Recall': 0.8535294117647058, 'F-score': 0.8834912143474734}}

Experiment 20: {'overall': {'Precision': 0.9967141488146811, 'Recall': 0.7535294117647058, 'F-score': 0.8582273269501568}}