Original

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Random Forest

Accuracy: 0.7228431060967212

Precision, Recall, F1 (0.7032074264320348, 0.7123745819397993, 0.6881210620306942)

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Decision Tree

Accuracy: 0.6532435510355421

Precision, Recall, F1 (0.643126224129763, 0.6421404682274248, 0.6425597106860168)

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OneR

Accuracy: 0.6293805286296943

Precision, Recall, F1 (0.5180440528890706, 0.6287625418060201, 0.5601890214479442)

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AdaBoost

Accuracy: 0.6237671486837226

Precision, Recall, F1 (0.6279421274929093, 0.6220735785953178, 0.6247660812937466)

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Nearest Neighbors

Accuracy: 0.5892120875046347

Precision, Recall, F1 (0.5933296936507472, 0.5886287625418061, 0.5887098559399984)

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Nearest Neighbors

Accuracy: 0.567330102229991

Precision, Recall, F1 (0.5618483895667546, 0.5652173913043478, 0.5607371367653027)

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Neural Net

Accuracy: 0.4952953016579268

Precision, Recall, F1 (0.4440476206146269, 0.40468227424749165, 0.4111411178236302)

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Naive Bayes

Accuracy: 0.294514010275968

Precision, Recall, F1 (0.5596048907965824, 0.29431438127090304, 0.18981764517061384)

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Remove hospital\_number

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Random Forest

Accuracy: 0.7047486625350918

Precision, Recall, F1 (0.6951635646423251, 0.7090301003344481, 0.6839914186837068)

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Nearest Neighbors

Accuracy: 0.6968067694263468

Precision, Recall, F1 (0.686358120816186, 0.6956521739130435, 0.6855916564109658)

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Nearest Neighbors

Accuracy: 0.6828748874410722

Precision, Recall, F1 (0.6703954078607177, 0.6822742474916388, 0.6712271165325949)

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AdaBoost

Accuracy: 0.6349176333492241

Precision, Recall, F1 (0.6376840069993492, 0.6354515050167224, 0.6364127067209071)

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Decision Tree

Accuracy: 0.6310776524180307

Precision, Recall, F1 (0.620995232711506, 0.6254180602006689, 0.6229583146226378)

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OneR

Accuracy: 0.6166004555326025

Precision, Recall, F1 (0.4961206980855051, 0.6153846153846154, 0.5290675100355977)

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Naive Bayes

Accuracy: 0.5582448752582233

Precision, Recall, F1 (0.7083937382502082, 0.5585284280936454, 0.5535330163904361)

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Neural Net

Accuracy: 0.540948408284337

Precision, Recall, F1 (0.45477921490983814, 0.5117056856187291, 0.4758180063528328)

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Remove hosnum && cp\_data

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Random Forest

Accuracy: 0.7139422109221887

Precision, Recall, F1 (0.6952631945504363, 0.7090301003344481, 0.6805496582812273)

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Nearest Neighbors

Accuracy: 0.6926902907993009

Precision, Recall, F1 (0.6874853398905202, 0.6923076923076923, 0.6852354285555556)

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Nearest Neighbors

Accuracy: 0.67853593940357

Precision, Recall, F1 (0.6734717953647177, 0.6789297658862876, 0.673019422202144)

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AdaBoost

Accuracy: 0.6458935854653319

Precision, Recall, F1 (0.6507403466099119, 0.6454849498327759, 0.6479865549668875)

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OneR

Accuracy: 0.6155635891731553

Precision, Recall, F1 (0.49894520195523534, 0.6153846153846154, 0.531166977101544)

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Decision Tree

Accuracy: 0.6066923565866835

Precision, Recall, F1 (0.6154965931952439, 0.6153846153846154, 0.614328640367068)

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Neural Net

Accuracy: 0.586078182107103

Precision, Recall, F1 (0.47167378183044434, 0.5384615384615384, 0.47122189619223953)

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Naive Bayes

Accuracy: 0.5554640076275226

Precision, Recall, F1 (0.7075938546034599, 0.5551839464882943, 0.5515286853614613)

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Remove cp\_data

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Random Forest

Accuracy: 0.7229588431590657

Precision, Recall, F1 (0.7099891782001917, 0.7224080267558528, 0.6928437493487726)

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OneR

Accuracy: 0.6318846337200063

Precision, Recall, F1 (0.5216733373540215, 0.6321070234113713, 0.5624197562174071)

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AdaBoost

Accuracy: 0.6245725409184808

Precision, Recall, F1 (0.6145439754135406, 0.6220735785953178, 0.6180219278143526)

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Decision Tree

Accuracy: 0.6240420573123577

Precision, Recall, F1 (0.5898295906991559, 0.5886287625418061, 0.588857247880366)

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Nearest Neighbors

Accuracy: 0.6227670957148153

Precision, Recall, F1 (0.6219393665777573, 0.6220735785953178, 0.6212320805244335)

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Nearest Neighbors

Accuracy: 0.5896109433762381

Precision, Recall, F1 (0.5818628910674861, 0.5886287625418061, 0.5794085076428301)

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Neural Net

Accuracy: 0.33187298056041104

Precision, Recall, F1 (0.4447922359890289, 0.451505016722408, 0.4468327187189852)

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Naive Bayes

Accuracy: 0.3014187721807299

Precision, Recall, F1 (0.5635933220474283, 0.3010033444816054, 0.19586179035307033)

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Remove 'hospital\_number','cp\_data','nasogastric\_reflux\_ph'

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Random Forest

Accuracy: 0.7117691615021983

Precision, Recall, F1 (0.6767938583155975, 0.6923076923076923, 0.6636732616782602)

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Nearest Neighbors

Accuracy: 0.7017535356745591

Precision, Recall, F1 (0.704913274478492, 0.7023411371237458, 0.6959711299156102)

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Nearest Neighbors

Accuracy: 0.6785203135759309

Precision, Recall, F1 (0.6692364632406709, 0.6789297658862876, 0.6718992544982344)

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OneR

Accuracy: 0.6302942422797818

Precision, Recall, F1 (0.5175151622845707, 0.6287625418060201, 0.5561675165261356)

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AdaBoost

Accuracy: 0.6273224217384394

Precision, Recall, F1 (0.6437109695578039, 0.6287625418060201, 0.6353274376556297)

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Decision Tree

Accuracy: 0.6180144605116797

Precision, Recall, F1 (0.6320801803856197, 0.6354515050167224, 0.6331573524987849)

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Neural Net

Accuracy: 0.5499491498490385

Precision, Recall, F1 (0.5497298860623028, 0.46153846153846156, 0.4916249114627065)

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Naive Bayes

Accuracy: 0.5474008157211716

Precision, Recall, F1 (0.7089707976772185, 0.5484949832775919, 0.5414651198703669)

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