The winner is...

({"l\_dim":[17, 12, 6, 1], "a\_functions":["sigmoid", "sigmoid", "tanh"],"eta":0.5, "tau":(False, False), "reg":(False, False), "dim\_batch":0, "momentum":("classic", 0.75), "epochs":1000, "batch\_shuffle":True, "distribution":"uniform","eps": 0.5, "bias":0, "early\_stop":True, "patience":50, "classification=True} ")

Try to do better... with fine grid search

"l\_dim":[17, 12, 6, 1], "a\_functions":["sigmoid", "sigmoid", "tanh"],"eta":0.5, "tau":(False, False), "reg":(False, False), "dim\_batch":0, "momentum":("classic", 0.75), "epochs":1000, "batch\_shuffle":True, "distribution":"uniform","eps": 0.5, "bias":0, "early\_stop":True, "patience":50, "classification"=True

Create the candidate: 1 / 1

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Estimate error for model # 0 of 27

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Model: {"l\_dim": [17, 12, 6, 1], "a\_functions": ["sigmoid", "sigmoid", "tanh"], "eta": 0.4, "tau": (False, False), "reg": (False, False), "momentum": ("classic", 0.75), "epochs": 1000, "batch\_shuffle": True, "eps": 0.4, "distribution": "uniform", "bias": 0, "seed": 30, "classification": [True], "early\_stop": True, "patience": 50, "dim\_batch": 1}

Mean Train: 0.12059175501320969

Mean Mae 0.35794876693069205

Mean Validation: 0.12510292885882357

Accuracy 1.0

Mean Rmse: 0.40438576710508656

Mean MEE: 0.06940453504694742

Mean Errors: 0.12510292885882357

mean Epochs: 825.0

----

Estimate error for model # 1 of 27

----

Model: {"l\_dim": [17, 12, 6, 1], "a\_functions": ["sigmoid", "sigmoid", "tanh"], "eta": 0.4, "tau": (False, False), "reg": (False, False), "momentum": ("classic", 0.75), "epochs": 1000, "batch\_shuffle": True, "eps": 0.5, "distribution": "uniform", "bias": 0, "seed": 30, "classification": [True], "early\_stop": True, "patience": 50, "dim\_batch": 1}

Mean Train: 0.035959190767062575

Mean Mae 0.16157650352822955

Mean Validation: 0.03393252730547302

Accuracy 1.0

Mean Rmse: 0.20093569296301314

Mean MEE: 0.03449784851219882

Mean Errors: 0.03393252730547302

mean Epochs: 442.4

----

Estimate error for model # 2 of 27

----

Model: {"l\_dim": [17, 12, 6, 1], "a\_functions": ["sigmoid", "sigmoid", "tanh"], "eta": 0.4, "tau": (False, False), "reg": (False, False), "momentum": ("classic", 0.75), "epochs": 1000, "batch\_shuffle": True, "eps": 0.625, "distribution": "uniform", "bias": 0, "seed": 30, "classification": [True], "early\_stop": True, "patience": 50, "dim\_batch": 1}

Mean Train: 0.1494077385497727

Mean Mae 0.3605720040527464

Mean Validation: 0.14314288251007326

Accuracy 1.0

Mean Rmse: 0.4214778940621242

Mean MEE: 0.0722967020403448

Mean Errors: 0.14314288251007326

mean Epochs: 472.4

----

Estimate error for model # 3 of 27

----

Model: {"l\_dim": [17, 12, 6, 1], "a\_functions": ["sigmoid", "sigmoid", "tanh"], "eta": 0.4, "tau": (False, False), "reg": (False, False), "momentum": ("classic", 0.75), "epochs": 1000, "batch\_shuffle": True, "eps": 0.4, "distribution": "uniform", "bias": 0, "seed": 30, "classification": [True], "early\_stop": True, "patience": 50, "dim\_batch": 0}

Mean Train: 0.005367785853095227

Mean Mae 0.11201973341733958

Mean Validation: 0.0077358868977390775

Accuracy 1.0

Mean Rmse: 0.12380404351191665

Mean MEE: 0.021290321219206525

Mean Errors: 0.0077358868977390775

mean Epochs: 322.6

----

Estimate error for model # 4 of 27

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Model: {"l\_dim": [17, 12, 6, 1], "a\_functions": ["sigmoid", "sigmoid", "tanh"], "eta": 0.4, "tau": (False, False), "reg": (False, False), "momentum": ("classic", 0.75), "epochs": 1000, "batch\_shuffle": True, "eps": 0.5, "distribution": "uniform", "bias": 0, "seed": 30, "classification": [True], "early\_stop": True, "patience": 50, "dim\_batch": 0}

Mean Train: 0.0055278841375088926

Mean Mae 0.11404501398746927

Mean Validation: 0.008164237951426333

Accuracy 1.0

Mean Rmse: 0.12663634689622083

Mean MEE: 0.021778385699535968

Mean Errors: 0.008164237951426333

mean Epochs: 317.2

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Estimate error for model # 5 of 27

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Model: {"l\_dim": [17, 12, 6, 1], "a\_functions": ["sigmoid", "sigmoid", "tanh"], "eta": 0.4, "tau": (False, False), "reg": (False, False), "momentum": ("classic", 0.75), "epochs": 1000, "batch\_shuffle": True, "eps": 0.625, "distribution": "uniform", "bias": 0, "seed": 30, "classification": [True], "early\_stop": True, "patience": 50, "dim\_batch": 0}

Mean Train: 0.020092020118931325

Mean Mae 0.1624891837657836

Mean Validation: 0.023634203465283048

Accuracy 1.0

Mean Rmse: 0.1859484021368266

Mean MEE: 0.031949114965071905

Mean Errors: 0.023634203465283048

mean Epochs: 263.0

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Estimate error for model # 6 of 27

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Model: {"l\_dim": [17, 12, 6, 1], "a\_functions": ["sigmoid", "sigmoid", "tanh"], "eta": 0.4, "tau": (False, False), "reg": (False, False), "momentum": ("classic", 0.75), "epochs": 1000, "batch\_shuffle": True, "eps": 0.4, "distribution": "uniform", "bias": 0, "seed": 30, "classification": [True], "early\_stop": True, "patience": 50, "dim\_batch": 10}

Mean Train: 0.0012643147955944665

Mean Mae 0.050654724588599875

Mean Validation: 0.0020407898249067647

Accuracy 1.0

Mean Rmse: 0.06250036059191315

Mean MEE: 0.01074627675798022

Mean Errors: 0.0020407898249067647

mean Epochs: 105.4

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Estimate error for model # 7 of 27

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Model: {"l\_dim": [17, 12, 6, 1], "a\_functions": ["sigmoid", "sigmoid", "tanh"], "eta": 0.4, "tau": (False, False), "reg": (False, False), "momentum": ("classic", 0.75), "epochs": 1000, "batch\_shuffle": True, "eps": 0.5, "distribution": "uniform", "bias": 0, "seed": 30, "classification": [True], "early\_stop": True, "patience": 50, "dim\_batch": 10}

Mean Train: 0.0007850990566732127

Mean Mae 0.04012080609925398

Mean Validation: 0.001503356731432408

Accuracy 1.0

Mean Rmse: 0.05296230848534522

Mean MEE: 0.009107931195669331

Mean Errors: 0.001503356731432408

mean Epochs: 97.2

----

Estimate error for model # 8 of 27

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Model: {"l\_dim": [17, 12, 6, 1], "a\_functions": ["sigmoid", "sigmoid", "tanh"], "eta": 0.4, "tau": (False, False), "reg": (False, False), "momentum": ("classic", 0.75), "epochs": 1000, "batch\_shuffle": True, "eps": 0.625, "distribution": "uniform", "bias": 0, "seed": 30, "classification": [True], "early\_stop": True, "patience": 50, "dim\_batch": 10}

Mean Train: 0.001207166746684046

Mean Mae 0.05081503803325973

Mean Validation: 0.0018899406474150973

Accuracy 1.0

Mean Rmse: 0.06117177866761383

Mean MEE: 0.010518407571025803

Mean Errors: 0.0018899406474150973

mean Epochs: 97.8

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Estimate error for model # 9 of 27

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Model: {"l\_dim": [17, 12, 6, 1], "a\_functions": ["sigmoid", "sigmoid", "tanh"], "eta": 0.5, "tau": (False, False), "reg": (False, False), "momentum": ("classic", 0.75), "epochs": 1000, "batch\_shuffle": True, "eps": 0.4, "distribution": "uniform", "bias": 0, "seed": 30, "classification": [True], "early\_stop": True, "patience": 50, "dim\_batch": 1}

Mean Train: 0.08745474558763149

Mean Mae 0.23836440998636205

Mean Validation: 0.08541229000750519

Accuracy 1.0

Mean Rmse: 0.28614735191888524

Mean MEE: 0.049085612926304575

Mean Errors: 0.08541229000750519

mean Epochs: 501.4

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Estimate error for model # 10 of 27

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Model: {"l\_dim": [17, 12, 6, 1], "a\_functions": ["sigmoid", "sigmoid", "tanh"], "eta": 0.5, "tau": (False, False), "reg": (False, False), "momentum": ("classic", 0.75), "epochs": 1000, "batch\_shuffle": True, "eps": 0.5, "distribution": "uniform", "bias": 0, "seed": 30, "classification": [True], "early\_stop": True, "patience": 50, "dim\_batch": 1}

Mean Train: 0.05083524339946401

Mean Mae 0.14821412324914257

Mean Validation: 0.0576592655702747

Accuracy 1.0

Mean Rmse: 0.18057072184928624

Mean MEE: 0.03098345972177837

Mean Errors: 0.0576592655702747

mean Epochs: 326.4

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Estimate error for model # 11 of 27

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Model: {"l\_dim": [17, 12, 6, 1], "a\_functions": ["sigmoid", "sigmoid", "tanh"], "eta": 0.5, "tau": (False, False), "reg": (False, False), "momentum": ("classic", 0.75), "epochs": 1000, "batch\_shuffle": True, "eps": 0.625, "distribution": "uniform", "bias": 0, "seed": 30, "classification": [True], "early\_stop": True, "patience": 50, "dim\_batch": 1}

Mean Train: 0.1549379521953403

Mean Mae 0.3874357563137336

Mean Validation: 0.16871083002082357

Accuracy 0.9393939393939394

Mean Rmse: 0.49300772033255785

Mean MEE: 0.08465236563312419

Mean Errors: 0.16871083002082357

mean Epochs: 560.2

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Estimate error for model # 12 of 27

----

Model: {"l\_dim": [17, 12, 6, 1], "a\_functions": ["sigmoid", "sigmoid", "tanh"], "eta": 0.5, "tau": (False, False), "reg": (False, False), "momentum": ("classic", 0.75), "epochs": 1000, "batch\_shuffle": True, "eps": 0.4, "distribution": "uniform", "bias": 0, "seed": 30, "classification": [True], "early\_stop": True, "patience": 50, "dim\_batch": 0}

Mean Train: 0.004681852635032427

Mean Mae 0.10703383947234024

Mean Validation: 0.007278302959137497

Accuracy 1.0

Mean Rmse: 0.12015005638114695

Mean MEE: 0.02065845878098372

Mean Errors: 0.007278302959137497

mean Epochs: 282.8

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Estimate error for model # 13 of 27

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Model: {"l\_dim": [17, 12, 6, 1], "a\_functions": ["sigmoid", "sigmoid", "tanh"], "eta": 0.5, "tau": (False, False), "reg": (False, False), "momentum": ("classic", 0.75), "epochs": 1000, "batch\_shuffle": True, "eps": 0.5, "distribution": "uniform", "bias": 0, "seed": 30, "classification": [True], "early\_stop": True, "patience": 50, "dim\_batch": 0}

Mean Train: 0.0046997138470842355

Mean Mae 0.10688092459265419

Mean Validation: 0.00675995513470298

Accuracy 1.0

Mean Rmse: 0.11566065142851649

Mean MEE: 0.019890935344531208

Mean Errors: 0.00675995513470298

mean Epochs: 269.4

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Estimate error for model # 14 of 27

----

Model: {"l\_dim": [17, 12, 6, 1], "a\_functions": ["sigmoid", "sigmoid", "tanh"], "eta": 0.5, "tau": (False, False), "reg": (False, False), "momentum": ("classic", 0.75), "epochs": 1000, "batch\_shuffle": True, "eps": 0.625, "distribution": "uniform", "bias": 0, "seed": 30, "classification": [True], "early\_stop": True, "patience": 50, "dim\_batch": 0}

Mean Train: 0.018599851746231813

Mean Mae 0.15045809940524266

Mean Validation: 0.021219820445283304

Accuracy 1.0

Mean Rmse: 0.17244670667546208

Mean MEE: 0.029628561211018024

Mean Errors: 0.021219820445283304

mean Epochs: 240.0

----

Estimate error for model # 15 of 27

----

Model: {"l\_dim": [17, 12, 6, 1], "a\_functions": ["sigmoid", "sigmoid", "tanh"], "eta": 0.5, "tau": (False, False), "reg": (False, False), "momentum": ("classic", 0.75), "epochs": 1000, "batch\_shuffle": True, "eps": 0.4, "distribution": "uniform", "bias": 0, "seed": 30, "classification": [True], "early\_stop": True, "patience": 50, "dim\_batch": 10}

Mean Train: 0.0009760963570591358

Mean Mae 0.042570614209023847

Mean Validation: 0.0013848874114099259

Accuracy 1.0

Mean Rmse: 0.05201422644370529

Mean MEE: 0.008950905714882437

Mean Errors: 0.0013848874114099259

mean Epochs: 104.0

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Estimate error for model # 16 of 27

----

Model: {"l\_dim": [17, 12, 6, 1], "a\_functions": ["sigmoid", "sigmoid", "tanh"], "eta": 0.5, "tau": (False, False), "reg": (False, False), "momentum": ("classic", 0.75), "epochs": 1000, "batch\_shuffle": True, "eps": 0.5, "distribution": "uniform", "bias": 0, "seed": 30, "classification": [True], "early\_stop": True, "patience": 50, "dim\_batch": 10}

Mean Train: 0.001137472728345568

Mean Mae 0.045616907419602795

Mean Validation: 0.001711142774811773

Accuracy 1.0

Mean Rmse: 0.056186697280877475

Mean MEE: 0.009668014693899819

Mean Errors: 0.001711142774811773

mean Epochs: 97.0

----

Estimate error for model # 17 of 27

----

Model: {"l\_dim": [17, 12, 6, 1], "a\_functions": ["sigmoid", "sigmoid", "tanh"], "eta": 0.5, "tau": (False, False), "reg": (False, False), "momentum": ("classic", 0.75), "epochs": 1000, "batch\_shuffle": True, "eps": 0.625, "distribution": "uniform", "bias": 0, "seed": 30, "classification": [True], "early\_stop": True, "patience": 50, "dim\_batch": 10}

Mean Train: 0.0008672548269097188

Mean Mae 0.043677406839299146

Mean Validation: 0.0014158403308648878

Accuracy 1.0

Mean Rmse: 0.0512717719486955

Mean MEE: 0.008815247898865761

Mean Errors: 0.0014158403308648878

mean Epochs: 92.0

----

Estimate error for model # 18 of 27

----

Model: {"l\_dim": [17, 12, 6, 1], "a\_functions": ["sigmoid", "sigmoid", "tanh"], "eta": 0.625, "tau": (False, False), "reg": (False, False), "momentum": ("classic", 0.75), "epochs": 1000, "batch\_shuffle": True, "eps": 0.4, "distribution": "uniform", "bias": 0, "seed": 30, "classification": [True], "early\_stop": True, "patience": 50, "dim\_batch": 1}

Mean Train: 0.09460879488164922

Mean Mae 0.24797727096764524

Mean Validation: 0.08960061724716945

Accuracy 1.0

Mean Rmse: 0.28461455692192394

Mean MEE: 0.04882663382949595

Mean Errors: 0.08960061724716945

mean Epochs: 533.4

----

Estimate error for model # 19 of 27

----

Model: {"l\_dim": [17, 12, 6, 1], "a\_functions": ["sigmoid", "sigmoid", "tanh"], "eta": 0.625, "tau": (False, False), "reg": (False, False), "momentum": ("classic", 0.75), "epochs": 1000, "batch\_shuffle": True, "eps": 0.5, "distribution": "uniform", "bias": 0, "seed": 30, "classification": [True], "early\_stop": True, "patience": 50, "dim\_batch": 1}

Mean Train: 0.22637452542673717

Mean Mae 0.5410796025969666

Mean Validation: 0.21898036035371088

Accuracy 0.45454545454545453

Mean Rmse: 0.6577521059900809

Mean MEE: 0.11318450789883476

Mean Errors: 0.21898036035371088

mean Epochs: 865.6

----

Estimate error for model # 20 of 27

----

Model: {"l\_dim": [17, 12, 6, 1], "a\_functions": ["sigmoid", "sigmoid", "tanh"], "eta": 0.625, "tau": (False, False), "reg": (False, False), "momentum": ("classic", 0.75), "epochs": 1000, "batch\_shuffle": True, "eps": 0.625, "distribution": "uniform", "bias": 0, "seed": 30, "classification": [True], "early\_stop": True, "patience": 50, "dim\_batch": 1}

Mean Train: 0.2272558818625494

Mean Mae 0.4570650916197991

Mean Validation: 0.17797538231952031

Accuracy 0.45454545454545453

Mean Rmse: 0.5276643723309394

Mean MEE: 0.09075611314780778

Mean Errors: 0.17797538231952031

mean Epochs: 634.6

----

Estimate error for model # 21 of 27

----

Model: {"l\_dim": [17, 12, 6, 1], "a\_functions": ["sigmoid", "sigmoid", "tanh"], "eta": 0.625, "tau": (False, False), "reg": (False, False), "momentum": ("classic", 0.75), "epochs": 1000, "batch\_shuffle": True, "eps": 0.4, "distribution": "uniform", "bias": 0, "seed": 30, "classification": [True], "early\_stop": True, "patience": 50, "dim\_batch": 0}

Mean Train: 0.004500593156285322

Mean Mae 0.1109695127941911

Mean Validation: 0.00860800635096244

Accuracy 1.0

Mean Rmse: 0.1298029001730618

Mean MEE: 0.0223147600074161

Mean Errors: 0.00860800635096244

mean Epochs: 273.4

----

Estimate error for model # 22 of 27

----

Model: {"l\_dim": [17, 12, 6, 1], "a\_functions": ["sigmoid", "sigmoid", "tanh"], "eta": 0.625, "tau": (False, False), "reg": (False, False), "momentum": ("classic", 0.75), "epochs": 1000, "batch\_shuffle": True, "eps": 0.5, "distribution": "uniform", "bias": 0, "seed": 30, "classification": [True], "early\_stop": True, "patience": 50, "dim\_batch": 0}

Mean Train: 0.01781091117947221

Mean Mae 0.16299191962478746

Mean Validation: 0.02822269919250777

Accuracy 1.0

Mean Rmse: 0.19810092653026096

Mean MEE: 0.03402908487455826

Mean Errors: 0.02822269919250777

mean Epochs: 235.0

----

Estimate error for model # 23 of 27

----

Model: {"l\_dim": [17, 12, 6, 1], "a\_functions": ["sigmoid", "sigmoid", "tanh"], "eta": 0.625, "tau": (False, False), "reg": (False, False), "momentum": ("classic", 0.75), "epochs": 1000, "batch\_shuffle": True, "eps": 0.625, "distribution": "uniform", "bias": 0, "seed": 30, "classification": [True], "early\_stop": True, "patience": 50, "dim\_batch": 0}

Mean Train: 0.004171397347066407

Mean Mae 0.10086723436829437

Mean Validation: 0.006676718428558434

Accuracy 1.0

Mean Rmse: 0.11321900171884243

Mean MEE: 0.01946704692812733

Mean Errors: 0.006676718428558434

mean Epochs: 243.8

----

Estimate error for model # 24 of 27

----

Model: {"l\_dim": [17, 12, 6, 1], "a\_functions": ["sigmoid", "sigmoid", "tanh"], "eta": 0.625, "tau": (False, False), "reg": (False, False), "momentum": ("classic", 0.75), "epochs": 1000, "batch\_shuffle": True, "eps": 0.4, "distribution": "uniform", "bias": 0, "seed": 30, "classification": [True], "early\_stop": True, "patience": 50, "dim\_batch": 10}

Mean Train: 0.0007970733416913419

Mean Mae 0.03477777273517705

Mean Validation: 0.0009399812230844144

Accuracy 1.0

Mean Rmse: 0.04311854233010313

Mean MEE: 0.0074148747101897726

Mean Errors: 0.0009399812230844144

mean Epochs: 107.8

----

Estimate error for model # 25 of 27

----

Model: {"l\_dim": [17, 12, 6, 1], "a\_functions": ["sigmoid", "sigmoid", "tanh"], "eta": 0.625, "tau": (False, False), "reg": (False, False), "momentum": ("classic", 0.75), "epochs": 1000, "batch\_shuffle": True, "eps": 0.5, "distribution": "uniform", "bias": 0, "seed": 30, "classification": [True], "early\_stop": True, "patience": 50, "dim\_batch": 10}

Mean Train: 0.0008055424254944665

Mean Mae 0.039044368638067505

Mean Validation: 0.0011872047930286725

Accuracy 1.0

Mean Rmse: 0.04677773201679146

Mean MEE: 0.008049282694891101

Mean Errors: 0.0011872047930286725

mean Epochs: 98.2

----

Estimate error for model # 26 of 27

----

Model: {"l\_dim": [17, 12, 6, 1], "a\_functions": ["sigmoid", "sigmoid", "tanh"], "eta": 0.625, "tau": (False, False), "reg": (False, False), "momentum": ("classic", 0.75), "epochs": 1000, "batch\_shuffle": True, "eps": 0.625, "distribution": "uniform", "bias": 0, "seed": 30, "classification": [True], "early\_stop": True, "patience": 50, "dim\_batch": 10}

Mean Train: 0.0006256066039149321

Mean Mae 0.03725170970143604

Mean Validation: 0.001376070861251917

Accuracy 1.0

Mean Rmse: 0.04747061540913751

Mean MEE: 0.008185434059197671

Mean Errors: 0.001376070861251917

mean Epochs: 95.4

("[l\_dim:[17, 12, 6, 1] a\_functions:["sigmoid", "sigmoid", "tanh"] eta:0.625 tau:(False, False) reg:(False, False) dim\_batch:10 momentum:("classic", 0.75) epochs:1000 batch\_shuffle:True distribution:uniform: 0.4", " bias:0 early\_stop:True patience:50] ")