

## File - seeds

```
1 C:\Users\mille\Anaconda2\envs\penv3\python.exe C:/Users/
  mille/source/repos/Bianchi/PEL208-Special_Learning_Topics/
  Python_Assignments/mlp/seeds.py
2 [2018-12-18 23:16:20.884227] training MLP [3] witn n=0.3
3 [2018-12-18 23:16:20.884227] iteration 0
4 [2018-12-18 23:16:21.913011] iteration 1
5 [2018-12-18 23:16:22.912578] iteration 2
6 [2018-12-18 23:16:24.222250] iteration 3
7 [2018-12-18 23:16:25.583477] iteration 4
8 [2018-12-18 23:16:26.851265] training MLP [3] witn n=0.1
9 [2018-12-18 23:16:26.851265] iteration 0
10 [2018-12-18 23:16:28.647603] iteration 1
11 [2018-12-18 23:16:30.162786] iteration 2
12 [2018-12-18 23:16:31.633038] iteration 3
13 [2018-12-18 23:16:33.505302] iteration 4
14 [2018-12-18 23:16:35.350838] training MLP [3] witn n=0.03
15 [2018-12-18 23:16:35.350838] iteration 0
16 [2018-12-18 23:16:37.552469] iteration 1
17 [2018-12-18 23:16:39.584171] iteration 2
18 [2018-12-18 23:16:41.584965] iteration 3
19 [2018-12-18 23:16:43.660353] iteration 4
20 [2018-12-18 23:16:45.646850] training MLP [3] witn n=0.01
21 [2018-12-18 23:16:45.646850] iteration 0
22 [2018-12-18 23:16:47.521205] iteration 1
23 [2018-12-18 23:16:49.310939] iteration 2
24 [2018-12-18 23:16:51.102928] iteration 3
25 [2018-12-18 23:16:52.959716] iteration 4
26 [2018-12-18 23:16:56.795963] training MLP [3] witn n=0.003
27 [2018-12-18 23:16:56.795963] iteration 0
28 [2018-12-18 23:16:59.443573] iteration 1
29 [2018-12-18 23:17:02.011844] iteration 2
30 [2018-12-18 23:17:04.571253] iteration 3
31 [2018-12-18 23:17:07.106456] iteration 4
32 ##### Seeds Experiment - Layers [3]
33
34 Best n:
35 0.3
36 Confusion Matrix:
37 [[14  0  0]
38  [ 0 14  0]
39  [ 1  0 13]]
40 Precision:
41 0.9761904761904762
42 [2018-12-18 23:17:09.851490] training MLP [4] witn n=0.3
43 [2018-12-18 23:17:09.851490] iteration 0
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```
44 [2018-12-18 23:17:11.685208] iteration 1
45 [2018-12-18 23:17:13.068488] iteration 2
46 [2018-12-18 23:17:14.934406] iteration 3
47 [2018-12-18 23:17:16.068844] iteration 4
48 [2018-12-18 23:17:17.538263] training MLP [4] witn n=0.1
49 [2018-12-18 23:17:17.538263] iteration 0
50 [2018-12-18 23:17:20.149517] iteration 1
51 [2018-12-18 23:17:22.460806] iteration 2
52 [2018-12-18 23:17:24.751633] iteration 3
53 [2018-12-18 23:17:27.367478] iteration 4
54 [2018-12-18 23:17:29.071373] training MLP [4] witn n=0.03
55 [2018-12-18 23:17:29.071373] iteration 0
56 [2018-12-18 23:17:31.656464] iteration 1
57 [2018-12-18 23:17:34.302156] iteration 2
58 [2018-12-18 23:17:36.735035] iteration 3
59 [2018-12-18 23:17:39.225543] iteration 4
60 [2018-12-18 23:17:41.797735] training MLP [4] witn n=0.01
61 [2018-12-18 23:17:41.797735] iteration 0
62 [2018-12-18 23:17:44.533703] iteration 1
63 [2018-12-18 23:17:47.107184] iteration 2
64 [2018-12-18 23:17:49.615708] iteration 3
65 [2018-12-18 23:17:52.113300] iteration 4
66 [2018-12-18 23:17:54.679396] training MLP [4] witn n=0.003
67 [2018-12-18 23:17:54.679396] iteration 0
68 [2018-12-18 23:17:57.215242] iteration 1
69 [2018-12-18 23:17:59.825105] iteration 2
70 [2018-12-18 23:18:02.554135] iteration 3
71 [2018-12-18 23:18:05.271812] iteration 4
72 ##### Seeds Experiment - Layers [4]
73
74 Best n:
75 0.3
76 Confusion Matrix:
77 [[14  0  0]
78  [ 0 14  0]
79  [ 1  0 13]]
80 Precision:
81 0.9761904761904762
82 [2018-12-18 23:18:08.048302] training MLP [5] witn n=0.3
83 [2018-12-18 23:18:08.048302] iteration 0
84 [2018-12-18 23:18:09.313145] iteration 1
85 [2018-12-18 23:18:10.539319] iteration 2
86 [2018-12-18 23:18:11.568799] iteration 3
87 [2018-12-18 23:18:13.899781] iteration 4
88 [2018-12-18 23:18:14.961339] training MLP [5] witn n=0.1
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```
89 [2018-12-18 23:18:14.961339] iteration 0
90 [2018-12-18 23:18:17.367171] iteration 1
91 [2018-12-18 23:18:18.908094] iteration 2
92 [2018-12-18 23:18:20.772211] iteration 3
93 [2018-12-18 23:18:22.442924] iteration 4
94 [2018-12-18 23:18:23.882441] training MLP [5] witn n=0.03
95 [2018-12-18 23:18:23.882441] iteration 0
96 [2018-12-18 23:18:26.313584] iteration 1
97 [2018-12-18 23:18:28.771701] iteration 2
98 [2018-12-18 23:18:31.430214] iteration 3
99 [2018-12-18 23:18:33.958650] iteration 4
100 [2018-12-18 23:18:36.382601] training MLP [5] witn n=0.01
101 [2018-12-18 23:18:36.382601] iteration 0
102 [2018-12-18 23:18:38.693855] iteration 1
103 [2018-12-18 23:18:41.261061] iteration 2
104 [2018-12-18 23:18:43.772707] iteration 3
105 [2018-12-18 23:18:46.807303] iteration 4
106 [2018-12-18 23:18:49.882359] training MLP [5] witn n=0.
    003
107 [2018-12-18 23:18:49.882359] iteration 0
108 [2018-12-18 23:18:52.265146] iteration 1
109 [2018-12-18 23:18:54.739823] iteration 2
110 [2018-12-18 23:18:57.088689] iteration 3
111 [2018-12-18 23:18:59.517162] iteration 4
112 ##### Seeds Experiment - Layers [5]
113
114 Best n:
115 0.3
116 Confusion Matrix:
117 [[14  0  0]
118  [ 0 14  0]
119  [ 1  0 13]]
120 Precision:
121 0.9761904761904762
122 [2018-12-18 23:19:02.074228] training MLP [6] witn n=0.3
123 [2018-12-18 23:19:02.074228] iteration 0
124 [2018-12-18 23:19:03.383914] iteration 1
125 [2018-12-18 23:19:04.568252] iteration 2
126 [2018-12-18 23:19:05.706303] iteration 3
127 [2018-12-18 23:19:06.798318] iteration 4
128 [2018-12-18 23:19:09.383635] training MLP [6] witn n=0.1
129 [2018-12-18 23:19:09.383635] iteration 0
130 [2018-12-18 23:19:10.872902] iteration 1
131 [2018-12-18 23:19:12.616877] iteration 2
132 [2018-12-18 23:19:14.088467] iteration 3
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```
133 [2018-12-18 23:19:16.185297] iteration 4
134 [2018-12-18 23:19:18.191671] training MLP [6] witn n=0.03
135 [2018-12-18 23:19:18.191671] iteration 0
136 [2018-12-18 23:19:20.733086] iteration 1
137 [2018-12-18 23:19:23.412718] iteration 2
138 [2018-12-18 23:19:25.914065] iteration 3
139 [2018-12-18 23:19:28.350608] iteration 4
140 [2018-12-18 23:19:30.878326] training MLP [6] witn n=0.01
141 [2018-12-18 23:19:30.878326] iteration 0
142 [2018-12-18 23:19:33.365402] iteration 1
143 [2018-12-18 23:19:35.773393] iteration 2
144 [2018-12-18 23:19:38.321134] iteration 3
145 [2018-12-18 23:19:40.709500] iteration 4
146 [2018-12-18 23:19:43.144079] training MLP [6] witn n=0.
003
147 [2018-12-18 23:19:43.144079] iteration 0
148 [2018-12-18 23:19:45.571099] iteration 1
149 [2018-12-18 23:19:48.075572] iteration 2
150 [2018-12-18 23:19:50.602102] iteration 3
151 [2018-12-18 23:19:53.134479] iteration 4
152 ##### Seeds Experiment - Layers [6]
153
154 Best n:
155 0.1
156 Confusion Matrix:
157 [[14  0  0]
158  [ 0 14  0]
159  [ 1  0 13]]
160 Precision:
161 0.9761904761904762
162 [2018-12-18 23:19:55.727763] training MLP [3, 3] witn n=0
.3
163 [2018-12-18 23:19:55.727763] iteration 0
164 [2018-12-18 23:19:58.505410] iteration 1
165 [2018-12-18 23:20:01.302980] iteration 2
166 [2018-12-18 23:20:04.138554] iteration 3
167 [2018-12-18 23:20:06.733637] iteration 4
168 [2018-12-18 23:20:09.539436] training MLP [3, 3] witn n=0
.1
169 [2018-12-18 23:20:09.539436] iteration 0
170 [2018-12-18 23:20:12.786444] iteration 1
171 [2018-12-18 23:20:15.521424] iteration 2
172 [2018-12-18 23:20:18.278744] iteration 3
173 [2018-12-18 23:20:21.038199] iteration 4
174 [2018-12-18 23:20:23.829316] training MLP [3, 3] witn n=0
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```
174 .03
175 [2018-12-18 23:20:23.829316] iteration 0
176 [2018-12-18 23:20:26.649905] iteration 1
177 [2018-12-18 23:20:29.399459] iteration 2
178 [2018-12-18 23:20:32.367927] iteration 3
179 [2018-12-18 23:20:35.244200] iteration 4
180 [2018-12-18 23:20:38.007665] training MLP [3, 3] witn n=0
    .01
181 [2018-12-18 23:20:38.007665] iteration 0
182 [2018-12-18 23:20:40.891367] iteration 1
183 [2018-12-18 23:20:43.740485] iteration 2
184 [2018-12-18 23:20:46.768659] iteration 3
185 [2018-12-18 23:20:49.584137] iteration 4
186 [2018-12-18 23:20:52.474103] training MLP [3, 3] witn n=0
    .003
187 [2018-12-18 23:20:52.474103] iteration 0
188 [2018-12-18 23:20:55.179977] iteration 1
189 [2018-12-18 23:20:57.836579] iteration 2
190 [2018-12-18 23:21:00.397234] iteration 3
191 [2018-12-18 23:21:03.070814] iteration 4
192 ##### Seeds Experiment - Layers [3, 3]
193
194 Best n:
195 0.3
196 Confusion Matrix:
197 [[12  1  1]
198 [ 0 14  0]
199 [ 0  0 14]]
200 Precision:
201 0.9523809523809523
202 [2018-12-18 23:21:05.974328] training MLP [3, 4] witn n=0
    .3
203 [2018-12-18 23:21:05.974328] iteration 0
204 [2018-12-18 23:21:08.741749] iteration 1
205 [2018-12-18 23:21:11.584461] iteration 2
206 [2018-12-18 23:21:14.300015] iteration 3
207 [2018-12-18 23:21:17.115455] iteration 4
208 [2018-12-18 23:21:19.993511] training MLP [3, 4] witn n=0
    .1
209 [2018-12-18 23:21:19.993511] iteration 0
210 [2018-12-18 23:21:22.647209] iteration 1
211 [2018-12-18 23:21:25.321320] iteration 2
212 [2018-12-18 23:21:28.172572] iteration 3
213 [2018-12-18 23:21:30.830958] iteration 4
214 [2018-12-18 23:21:33.805889] training MLP [3, 4] witn n=0
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```
214 .03
215 [2018-12-18 23:21:33.805889] iteration 0
216 [2018-12-18 23:21:36.649168] iteration 1
217 [2018-12-18 23:21:39.536645] iteration 2
218 [2018-12-18 23:21:42.262300] iteration 3
219 [2018-12-18 23:21:45.022495] iteration 4
220 [2018-12-18 23:21:47.724362] training MLP [3, 4] witn n=0
    .01
221 [2018-12-18 23:21:47.724362] iteration 0
222 [2018-12-18 23:21:50.539934] iteration 1
223 [2018-12-18 23:21:53.429103] iteration 2
224 [2018-12-18 23:21:56.335197] iteration 3
225 [2018-12-18 23:21:59.180490] iteration 4
226 [2018-12-18 23:22:01.999182] training MLP [3, 4] witn n=0
    .003
227 [2018-12-18 23:22:01.999182] iteration 0
228 [2018-12-18 23:22:04.997971] iteration 1
229 [2018-12-18 23:22:07.989872] iteration 2
230 [2018-12-18 23:22:10.795957] iteration 3
231 [2018-12-18 23:22:13.757418] iteration 4
232 ##### Seeds Experiment - Layers [3, 4]
233
234 Best n:
235 0.3
236 Confusion Matrix:
237 [[12  1  1]
238 [ 0 14  0]
239 [ 0  0 14]]
240 Precision:
241 0.9523809523809523
242 [2018-12-18 23:22:16.877767] training MLP [3, 5] witn n=0
    .3
243 [2018-12-18 23:22:16.877767] iteration 0
244 [2018-12-18 23:22:19.834783] iteration 1
245 [2018-12-18 23:22:22.679914] iteration 2
246 [2018-12-18 23:22:25.585986] iteration 3
247 [2018-12-18 23:22:28.458554] iteration 4
248 [2018-12-18 23:22:31.289787] training MLP [3, 5] witn n=0
    .1
249 [2018-12-18 23:22:31.289787] iteration 0
250 [2018-12-18 23:22:34.101653] iteration 1
251 [2018-12-18 23:22:36.945412] iteration 2
252 [2018-12-18 23:22:39.757203] iteration 3
253 [2018-12-18 23:22:42.647062] iteration 4
254 [2018-12-18 23:22:45.413691] training MLP [3, 5] witn n=0
```

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```
254 .03
255 [2018-12-18 23:22:45.413691] iteration 0
256 [2018-12-18 23:22:48.258699] iteration 1
257 [2018-12-18 23:22:51.106565] iteration 2
258 [2018-12-18 23:22:54.079230] iteration 3
259 [2018-12-18 23:22:56.932487] iteration 4
260 [2018-12-18 23:22:59.867182] training MLP [3, 5] witn n=0
    .01
261 [2018-12-18 23:22:59.867182] iteration 0
262 [2018-12-18 23:23:02.805275] iteration 1
263 [2018-12-18 23:23:05.680208] iteration 2
264 [2018-12-18 23:23:08.313937] iteration 3
265 [2018-12-18 23:23:11.336636] iteration 4
266 [2018-12-18 23:23:14.210911] training MLP [3, 5] witn n=0
    .003
267 [2018-12-18 23:23:14.210911] iteration 0
268 [2018-12-18 23:23:17.044469] iteration 1
269 [2018-12-18 23:23:19.773169] iteration 2
270 [2018-12-18 23:23:22.725178] iteration 3
271 [2018-12-18 23:23:25.648951] iteration 4
272 ##### Seeds Experiment - Layers [3, 5]
273
274 Best n:
275 0.3
276 Confusion Matrix:
277 [[12  1  1]
278  [ 0 14  0]
279  [ 0  0 14]]
280 Precision:
281 0.9523809523809523
282 [2018-12-18 23:23:28.679413] training MLP [3, 6] witn n=0
    .3
283 [2018-12-18 23:23:28.679413] iteration 0
284 [2018-12-18 23:23:31.680443] iteration 1
285 [2018-12-18 23:23:34.539798] iteration 2
286 [2018-12-18 23:23:37.319359] iteration 3
287 [2018-12-18 23:23:40.158465] iteration 4
288 [2018-12-18 23:23:43.008081] training MLP [3, 6] witn n=0
    .1
289 [2018-12-18 23:23:43.008081] iteration 0
290 [2018-12-18 23:23:45.898707] iteration 1
291 [2018-12-18 23:23:48.708572] iteration 2
292 [2018-12-18 23:23:51.662580] iteration 3
293 [2018-12-18 23:23:54.571251] iteration 4
294 [2018-12-18 23:23:57.399338] training MLP [3, 6] witn n=0
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```
294 .03
295 [2018-12-18 23:23:57.399338] iteration 0
296 [2018-12-18 23:24:00.194574] iteration 1
297 [2018-12-18 23:24:03.100561] iteration 2
298 [2018-12-18 23:24:05.974469] iteration 3
299 [2018-12-18 23:24:08.725908] iteration 4
300 [2018-12-18 23:24:11.599048] training MLP [3, 6] witn n=0
    .01
301 [2018-12-18 23:24:11.599048] iteration 0
302 [2018-12-18 23:24:14.531952] iteration 1
303 [2018-12-18 23:24:17.492734] iteration 2
304 [2018-12-18 23:24:20.431082] iteration 3
305 [2018-12-18 23:24:23.364900] iteration 4
306 [2018-12-18 23:24:26.055869] training MLP [3, 6] witn n=0
    .003
307 [2018-12-18 23:24:26.055869] iteration 0
308 [2018-12-18 23:24:28.834597] iteration 1
309 [2018-12-18 23:24:31.799149] iteration 2
310 [2018-12-18 23:24:34.742919] iteration 3
311 [2018-12-18 23:24:37.554486] iteration 4
312 ##### Seeds Experiment - Layers [3, 6]
313
314 Best n:
315 0.3
316 Confusion Matrix:
317 [[12  1  1]
318  [ 0 14  0]
319  [ 0  0 14]]
320 Precision:
321 0.9523809523809523
322 [2018-12-18 23:24:40.522136] training MLP [4, 3] witn n=0
    .3
323 [2018-12-18 23:24:40.522136] iteration 0
324 [2018-12-18 23:24:43.352374] iteration 1
325 [2018-12-18 23:24:46.290482] iteration 2
326 [2018-12-18 23:24:49.302433] iteration 3
327 [2018-12-18 23:24:52.241435] iteration 4
328 [2018-12-18 23:24:55.224953] training MLP [4, 3] witn n=0
    .1
329 [2018-12-18 23:24:55.224953] iteration 0
330 [2018-12-18 23:24:58.024418] iteration 1
331 [2018-12-18 23:25:00.976328] iteration 2
332 [2018-12-18 23:25:03.817817] iteration 3
333 [2018-12-18 23:25:06.742956] iteration 4
334 [2018-12-18 23:25:09.661304] training MLP [4, 3] witn n=0
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```
334 .03
335 [2018-12-18 23:25:09.661304] iteration 0
336 [2018-12-18 23:25:12.506169] iteration 1
337 [2018-12-18 23:25:15.318978] iteration 2
338 [2018-12-18 23:25:18.194077] iteration 3
339 [2018-12-18 23:25:21.057327] iteration 4
340 [2018-12-18 23:25:23.977135] training MLP [4, 3] witn n=0
    .01
341 [2018-12-18 23:25:23.977135] iteration 0
342 [2018-12-18 23:25:26.761875] iteration 1
343 [2018-12-18 23:25:29.739525] iteration 2
344 [2018-12-18 23:25:32.695331] iteration 3
345 [2018-12-18 23:25:35.536456] iteration 4
346 [2018-12-18 23:25:38.289701] training MLP [4, 3] witn n=0
    .003
347 [2018-12-18 23:25:38.289701] iteration 0
348 [2018-12-18 23:25:41.007079] iteration 1
349 [2018-12-18 23:25:43.762856] iteration 2
350 [2018-12-18 23:25:46.489740] iteration 3
351 [2018-12-18 23:25:49.414120] iteration 4
352 ##### Seeds Experiment - Layers [4, 3]
353
354 Best n:
355 0.3
356 Confusion Matrix:
357 [[14  0  0]
358  [ 1 13  0]
359  [ 1  0 13]]
360 Precision:
361 0.9523809523809523
362 [2018-12-18 23:25:52.429343] training MLP [4, 4] witn n=0
    .3
363 [2018-12-18 23:25:52.429343] iteration 0
364 [2018-12-18 23:25:55.334836] iteration 1
365 [2018-12-18 23:25:58.221256] iteration 2
366 [2018-12-18 23:26:01.273633] iteration 3
367 [2018-12-18 23:26:04.104493] iteration 4
368 [2018-12-18 23:26:06.915811] training MLP [4, 4] witn n=0
    .1
369 [2018-12-18 23:26:06.915811] iteration 0
370 [2018-12-18 23:26:09.898691] iteration 1
371 [2018-12-18 23:26:12.632369] iteration 2
372 [2018-12-18 23:26:15.632074] iteration 3
373 [2018-12-18 23:26:18.479028] iteration 4
374 [2018-12-18 23:26:21.352907] training MLP [4, 4] witn n=0
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```
374 .03
375 [2018-12-18 23:26:21.352907] iteration 0
376 [2018-12-18 23:26:24.253349] iteration 1
377 [2018-12-18 23:26:27.075600] iteration 2
378 [2018-12-18 23:26:29.958422] iteration 3
379 [2018-12-18 23:26:32.787959] iteration 4
380 [2018-12-18 23:26:35.649563] training MLP [4, 4] witn n=0
    .01
381 [2018-12-18 23:26:35.649563] iteration 0
382 [2018-12-18 23:26:38.528533] iteration 1
383 [2018-12-18 23:26:41.538470] iteration 2
384 [2018-12-18 23:26:44.458764] iteration 3
385 [2018-12-18 23:26:47.313725] iteration 4
386 [2018-12-18 23:26:50.085142] training MLP [4, 4] witn n=0
    .003
387 [2018-12-18 23:26:50.085142] iteration 0
388 [2018-12-18 23:26:52.989900] iteration 1
389 [2018-12-18 23:26:55.834908] iteration 2
390 [2018-12-18 23:26:58.601014] iteration 3
391 [2018-12-18 23:27:01.429799] iteration 4
392 ##### Seeds Experiment - Layers [4, 4]
393
394 Best n:
395 0.3
396 Confusion Matrix:
397 [[13  0  1]
398  [ 0 14  0]
399  [ 1  0 13]]
400 Precision:
401 0.9523809523809523
402 [2018-12-18 23:27:04.349686] training MLP [4, 5] witn n=0
    .3
403 [2018-12-18 23:27:04.349686] iteration 0
404 [2018-12-18 23:27:07.237255] iteration 1
405 [2018-12-18 23:27:10.087109] iteration 2
406 [2018-12-18 23:27:12.976238] iteration 3
407 [2018-12-18 23:27:15.736912] iteration 4
408 [2018-12-18 23:27:18.446132] training MLP [4, 5] witn n=0
    .1
409 [2018-12-18 23:27:18.446132] iteration 0
410 [2018-12-18 23:27:21.193164] iteration 1
411 [2018-12-18 23:27:24.148552] iteration 2
412 [2018-12-18 23:27:26.973864] iteration 3
413 [2018-12-18 23:27:29.897732] iteration 4
414 [2018-12-18 23:27:32.833564] training MLP [4, 5] witn n=0
```

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```
414 .03
415 [2018-12-18 23:27:32.833564] iteration 0
416 [2018-12-18 23:27:35.696667] iteration 1
417 [2018-12-18 23:27:38.427344] iteration 2
418 [2018-12-18 23:27:41.164115] iteration 3
419 [2018-12-18 23:27:44.037350] iteration 4
420 [2018-12-18 23:27:46.962777] training MLP [4, 5] witn n=0
    .01
421 [2018-12-18 23:27:46.962777] iteration 0
422 [2018-12-18 23:27:49.805858] iteration 1
423 [2018-12-18 23:27:52.647643] iteration 2
424 [2018-12-18 23:27:55.523393] iteration 3
425 [2018-12-18 23:27:58.380420] iteration 4
426 [2018-12-18 23:28:01.236534] training MLP [4, 5] witn n=0
    .003
427 [2018-12-18 23:28:01.236534] iteration 0
428 [2018-12-18 23:28:04.241050] iteration 1
429 [2018-12-18 23:28:07.184722] iteration 2
430 [2018-12-18 23:28:10.109902] iteration 3
431 [2018-12-18 23:28:12.866044] iteration 4
432 ##### Seeds Experiment - Layers [4, 5]
433
434 Best n:
435 0.3
436 Confusion Matrix:
437 [[12  1  1]
438 [ 0 14  0]
439 [ 0  0 14]]
440 Precision:
441 0.9523809523809523
442 [2018-12-18 23:28:15.911484] training MLP [4, 6] witn n=0
    .3
443 [2018-12-18 23:28:15.911484] iteration 0
444 [2018-12-18 23:28:18.804770] iteration 1
445 [2018-12-18 23:28:21.583724] iteration 2
446 [2018-12-18 23:28:24.474456] iteration 3
447 [2018-12-18 23:28:27.399345] iteration 4
448 [2018-12-18 23:28:30.286632] training MLP [4, 6] witn n=0
    .1
449 [2018-12-18 23:28:30.286632] iteration 0
450 [2018-12-18 23:28:33.178046] iteration 1
451 [2018-12-18 23:28:36.118015] iteration 2
452 [2018-12-18 23:28:39.022540] iteration 3
453 [2018-12-18 23:28:41.846148] iteration 4
454 [2018-12-18 23:28:44.711460] training MLP [4, 6] witn n=0
```

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454 .03
455 [2018-12-18 23:28:44.711460] iteration 0
456 [2018-12-18 23:28:47.554160] iteration 1
457 [2018-12-18 23:28:50.615074] iteration 2
458 [2018-12-18 23:28:53.599970] iteration 3
459 [2018-12-18 23:28:56.446389] iteration 4
460 [2018-12-18 23:28:59.228343] training MLP [4, 6] witn n=0
    .01
461 [2018-12-18 23:28:59.228343] iteration 0
462 [2018-12-18 23:29:02.033118] iteration 1
463 [2018-12-18 23:29:04.867940] iteration 2
464 [2018-12-18 23:29:07.710280] iteration 3
465 [2018-12-18 23:29:10.692780] iteration 4
466 [2018-12-18 23:29:13.584123] training MLP [4, 6] witn n=0
    .003
467 [2018-12-18 23:29:13.584123] iteration 0
468 [2018-12-18 23:29:16.427641] iteration 1
469 [2018-12-18 23:29:19.366039] iteration 2
470 [2018-12-18 23:29:22.226759] iteration 3
471 [2018-12-18 23:29:25.147156] iteration 4
472 ##### Seeds Experiment - Layers [4, 6]
473
474 Best n:
475 0.3
476 Confusion Matrix:
477 [[12  1  1]
478  [ 0 14  0]
479  [ 0  0 14]]
480 Precision:
481 0.9523809523809523
482 [2018-12-18 23:29:28.290215] training MLP [5, 3] witn n=0
    .3
483 [2018-12-18 23:29:28.290215] iteration 0
484 [2018-12-18 23:29:31.083555] iteration 1
485 [2018-12-18 23:29:33.804115] iteration 2
486 [2018-12-18 23:29:36.786748] iteration 3
487 [2018-12-18 23:29:39.586039] iteration 4
488 [2018-12-18 23:29:42.491304] training MLP [5, 3] witn n=0
    .1
489 [2018-12-18 23:29:42.491304] iteration 0
490 [2018-12-18 23:29:45.429942] iteration 1
491 [2018-12-18 23:29:48.352462] iteration 2
492 [2018-12-18 23:29:51.058211] iteration 3
493 [2018-12-18 23:29:53.818106] iteration 4
494 [2018-12-18 23:29:56.647361] training MLP [5, 3] witn n=0
```

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```
494 .03
495 [2018-12-18 23:29:56.647361] iteration 0
496 [2018-12-18 23:29:59.680671] iteration 1
497 [2018-12-18 23:30:02.663058] iteration 2
498 [2018-12-18 23:30:05.445068] iteration 3
499 [2018-12-18 23:30:08.320777] iteration 4
500 [2018-12-18 23:30:11.224374] training MLP [5, 3] witn n=0
    .01
501 [2018-12-18 23:30:11.224374] iteration 0
502 [2018-12-18 23:30:14.038493] iteration 1
503 [2018-12-18 23:30:16.924751] iteration 2
504 [2018-12-18 23:30:19.836841] iteration 3
505 [2018-12-18 23:30:22.633512] iteration 4
506 [2018-12-18 23:30:25.570208] training MLP [5, 3] witn n=0
    .003
507 [2018-12-18 23:30:25.570208] iteration 0
508 [2018-12-18 23:30:28.505172] iteration 1
509 [2018-12-18 23:30:31.445950] iteration 2
510 [2018-12-18 23:30:34.272511] iteration 3
511 [2018-12-18 23:30:37.133891] iteration 4
512 ##### Seeds Experiment - Layers [5, 3]
513
514 Best n:
515 0.3
516 Confusion Matrix:
517 [[14  0  0]
518  [ 0 14  0]
519  [ 1  0 13]]
520 Precision:
521 0.9761904761904762
522 [2018-12-18 23:30:40.294967] training MLP [5, 4] witn n=0
    .3
523 [2018-12-18 23:30:40.294967] iteration 0
524 [2018-12-18 23:30:43.224705] iteration 1
525 [2018-12-18 23:30:45.974483] iteration 2
526 [2018-12-18 23:30:48.943951] iteration 3
527 [2018-12-18 23:30:51.991190] iteration 4
528 [2018-12-18 23:30:54.943665] training MLP [5, 4] witn n=0
    .1
529 [2018-12-18 23:30:54.943665] iteration 0
530 [2018-12-18 23:30:57.868126] iteration 1
531 [2018-12-18 23:31:00.865825] iteration 2
532 [2018-12-18 23:31:03.677189] iteration 3
533 [2018-12-18 23:31:06.382339] iteration 4
534 [2018-12-18 23:31:09.398331] training MLP [5, 4] witn n=0
```

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```
534 .03
535 [2018-12-18 23:31:09.398331] iteration 0
536 [2018-12-18 23:31:12.318827] iteration 1
537 [2018-12-18 23:31:15.099465] iteration 2
538 [2018-12-18 23:31:17.960322] iteration 3
539 [2018-12-18 23:31:20.833432] iteration 4
540 [2018-12-18 23:31:23.727424] training MLP [5, 4] witn n=0
    .01
541 [2018-12-18 23:31:23.727424] iteration 0
542 [2018-12-18 23:31:26.617236] iteration 1
543 [2018-12-18 23:31:29.429809] iteration 2
544 [2018-12-18 23:31:32.278876] iteration 3
545 [2018-12-18 23:31:35.164260] iteration 4
546 [2018-12-18 23:31:38.225034] training MLP [5, 4] witn n=0
    .003
547 [2018-12-18 23:31:38.225034] iteration 0
548 [2018-12-18 23:31:41.271141] iteration 1
549 [2018-12-18 23:31:44.087642] iteration 2
550 [2018-12-18 23:31:47.155508] iteration 3
551 [2018-12-18 23:31:49.912378] iteration 4
552 ##### Seeds Experiment - Layers [5, 4]
553
554 Best n:
555 0.3
556 Confusion Matrix:
557 [[13  1  0]
558  [ 0 14  0]
559  [ 1  0 13]]
560 Precision:
561 0.9523809523809523
562 [2018-12-18 23:31:52.950708] training MLP [5, 5] witn n=0
    .3
563 [2018-12-18 23:31:52.950708] iteration 0
564 [2018-12-18 23:31:55.818757] iteration 1
565 [2018-12-18 23:31:58.701470] iteration 2
566 [2018-12-18 23:32:01.554492] iteration 3
567 [2018-12-18 23:32:04.443544] iteration 4
568 [2018-12-18 23:32:07.413530] training MLP [5, 5] witn n=0
    .1
569 [2018-12-18 23:32:07.413530] iteration 0
570 [2018-12-18 23:32:10.271708] iteration 1
571 [2018-12-18 23:32:13.148135] iteration 2
572 [2018-12-18 23:32:16.021150] iteration 3
573 [2018-12-18 23:32:18.880189] iteration 4
574 [2018-12-18 23:32:21.880551] training MLP [5, 5] witn n=0
```

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574 .03
575 [2018-12-18 23:32:21.880551] iteration 0
576 [2018-12-18 23:32:24.665367] iteration 1
577 [2018-12-18 23:32:27.566842] iteration 2
578 [2018-12-18 23:32:30.428438] iteration 3
579 [2018-12-18 23:32:33.364756] iteration 4
580 [2018-12-18 23:32:36.287456] training MLP [5, 5] witn n=0
.01
581 [2018-12-18 23:32:36.287456] iteration 0
582 [2018-12-18 23:32:39.182480] iteration 1
583 [2018-12-18 23:32:42.076463] iteration 2
584 [2018-12-18 23:32:44.867841] iteration 3
585 [2018-12-18 23:32:47.740711] iteration 4
586 [2018-12-18 23:32:50.554770] training MLP [5, 5] witn n=0
.003
587 [2018-12-18 23:32:50.554770] iteration 0
588 [2018-12-18 23:32:53.257543] iteration 1
589 [2018-12-18 23:32:56.162528] iteration 2
590 [2018-12-18 23:32:59.054663] iteration 3
591 [2018-12-18 23:33:01.866376] iteration 4
592 ##### Seeds Experiment - Layers [5, 5]
593
594 Best n:
595 0.3
596 Confusion Matrix:
597 [[14  0  0]
598  [ 0 14  0]
599  [ 1  0 13]]
600 Precision:
601 0.9761904761904762
602 [2018-12-18 23:33:05.022639] training MLP [5, 6] witn n=0
.3
603 [2018-12-18 23:33:05.022639] iteration 0
604 [2018-12-18 23:33:08.110619] iteration 1
605 [2018-12-18 23:33:11.098828] iteration 2
606 [2018-12-18 23:33:13.926974] iteration 3
607 [2018-12-18 23:33:16.725550] iteration 4
608 [2018-12-18 23:33:19.602049] training MLP [5, 6] witn n=0
.1
609 [2018-12-18 23:33:19.602049] iteration 0
610 [2018-12-18 23:33:22.522341] iteration 1
611 [2018-12-18 23:33:25.460109] iteration 2
612 [2018-12-18 23:33:28.352059] iteration 3
613 [2018-12-18 23:33:31.227201] iteration 4
614 [2018-12-18 23:33:34.181459] training MLP [5, 6] witn n=0
```

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614 .03
615 [2018-12-18 23:33:34.181459] iteration 0
616 [2018-12-18 23:33:36.985076] iteration 1
617 [2018-12-18 23:33:40.084955] iteration 2
618 [2018-12-18 23:33:43.090076] iteration 3
619 [2018-12-18 23:33:45.929150] iteration 4
620 [2018-12-18 23:33:48.929538] training MLP [5, 6] witn n=0
.01
621 [2018-12-18 23:33:48.929538] iteration 0
622 [2018-12-18 23:33:51.897051] iteration 1
623 [2018-12-18 23:33:54.851758] iteration 2
624 [2018-12-18 23:33:57.805356] iteration 3
625 [2018-12-18 23:34:00.710340] iteration 4
626 [2018-12-18 23:34:03.475026] training MLP [5, 6] witn n=0
.003
627 [2018-12-18 23:34:03.490662] iteration 0
628 [2018-12-18 23:34:06.412565] iteration 1
629 [2018-12-18 23:34:09.245059] iteration 2
630 [2018-12-18 23:34:12.194995] iteration 3
631 [2018-12-18 23:34:15.117915] iteration 4
632 ##### Seeds Experiment - Layers [5, 6]
633
634 Best n:
635 0.3
636 Confusion Matrix:
637 [[12 1 1]
638 [ 0 14 0]
639 [ 0 0 14]]
640 Precision:
641 0.9523809523809523
642 [2018-12-18 23:34:18.130986] training MLP [6, 3] witn n=0
.3
643 [2018-12-18 23:34:18.130986] iteration 0
644 [2018-12-18 23:34:21.024437] iteration 1
645 [2018-12-18 23:34:23.835657] iteration 2
646 [2018-12-18 23:34:26.583419] iteration 3
647 [2018-12-18 23:34:29.555717] iteration 4
648 [2018-12-18 23:34:32.663481] training MLP [6, 3] witn n=0
.1
649 [2018-12-18 23:34:32.663481] iteration 0
650 [2018-12-18 23:34:35.585124] iteration 1
651 [2018-12-18 23:34:38.492896] iteration 2
652 [2018-12-18 23:34:41.430067] iteration 3
653 [2018-12-18 23:34:44.334778] iteration 4
654 [2018-12-18 23:34:47.350014] training MLP [6, 3] witn n=0
```

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```
654 .03
655 [2018-12-18 23:34:47.350014] iteration 0
656 [2018-12-18 23:34:50.254241] iteration 1
657 [2018-12-18 23:34:53.083870] iteration 2
658 [2018-12-18 23:34:56.133761] iteration 3
659 [2018-12-18 23:34:59.052711] iteration 4
660 [2018-12-18 23:35:02.003259] training MLP [6, 3] witn n=0
.01
661 [2018-12-18 23:35:02.003259] iteration 0
662 [2018-12-18 23:35:04.924994] iteration 1
663 [2018-12-18 23:35:07.788857] iteration 2
664 [2018-12-18 23:35:10.645789] iteration 3
665 [2018-12-18 23:35:13.586793] iteration 4
666 [2018-12-18 23:35:16.350615] training MLP [6, 3] witn n=0
.003
667 [2018-12-18 23:35:16.350615] iteration 0
668 [2018-12-18 23:35:19.260149] iteration 1
669 [2018-12-18 23:35:22.079630] iteration 2
670 [2018-12-18 23:35:24.919366] iteration 3
671 [2018-12-18 23:35:27.740613] iteration 4
672 ##### Seeds Experiment - Layers [6, 3]
673
674 Best n:
675 0.3
676 Confusion Matrix:
677 [[13  1  0]
678  [ 0 14  0]
679  [ 1  0 13]]
680 Precision:
681 0.9523809523809523
682 [2018-12-18 23:35:30.790379] training MLP [6, 4] witn n=0
.3
683 [2018-12-18 23:35:30.790379] iteration 0
684 [2018-12-18 23:35:33.693906] iteration 1
685 [2018-12-18 23:35:36.583945] iteration 2
686 [2018-12-18 23:35:39.599099] iteration 3
687 [2018-12-18 23:35:42.526735] iteration 4
688 [2018-12-18 23:35:45.380045] training MLP [6, 4] witn n=0
.1
689 [2018-12-18 23:35:45.380045] iteration 0
690 [2018-12-18 23:35:48.500817] iteration 1
691 [2018-12-18 23:35:51.341404] iteration 2
692 [2018-12-18 23:35:54.199143] iteration 3
693 [2018-12-18 23:35:57.047884] iteration 4
694 [2018-12-18 23:35:59.994347] training MLP [6, 4] witn n=0
```

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```
694 .03
695 [2018-12-18 23:35:59.994347] iteration 0
696 [2018-12-18 23:36:02.916211] iteration 1
697 [2018-12-18 23:36:05.808057] iteration 2
698 [2018-12-18 23:36:08.552401] iteration 3
699 [2018-12-18 23:36:11.459159] iteration 4
700 [2018-12-18 23:36:14.367851] training MLP [6, 4] witn n=0
    .01
701 [2018-12-18 23:36:14.367851] iteration 0
702 [2018-12-18 23:36:17.236654] iteration 1
703 [2018-12-18 23:36:20.128122] iteration 2
704 [2018-12-18 23:36:23.016634] iteration 3
705 [2018-12-18 23:36:25.723966] iteration 4
706 [2018-12-18 23:36:28.698598] training MLP [6, 4] witn n=0
    .003
707 [2018-12-18 23:36:28.698598] iteration 0
708 [2018-12-18 23:36:31.632484] iteration 1
709 [2018-12-18 23:36:34.708421] iteration 2
710 [2018-12-18 23:36:37.631755] iteration 3
711 [2018-12-18 23:36:40.632239] iteration 4
712 ##### Seeds Experiment - Layers [6, 4]
713
714 Best n:
715 0.3
716 Confusion Matrix:
717 [[13  1  0]
718  [ 0 14  0]
719  [ 1  0 13]]
720 Precision:
721 0.9523809523809523
722 [2018-12-18 23:36:43.902925] training MLP [6, 5] witn n=0
    .3
723 [2018-12-18 23:36:43.902925] iteration 0
724 [2018-12-18 23:36:47.079122] iteration 1
725 [2018-12-18 23:36:50.121150] iteration 2
726 [2018-12-18 23:36:53.070985] iteration 3
727 [2018-12-18 23:36:55.976750] iteration 4
728 [2018-12-18 23:36:58.961946] training MLP [6, 5] witn n=0
    .1
729 [2018-12-18 23:36:58.961946] iteration 0
730 [2018-12-18 23:37:02.038711] iteration 1
731 [2018-12-18 23:37:04.891702] iteration 2
732 [2018-12-18 23:37:07.817784] iteration 3
733 [2018-12-18 23:37:10.708980] iteration 4
734 [2018-12-18 23:37:13.725125] training MLP [6, 5] witn n=0
```

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```
734 .03
735 [2018-12-18 23:37:13.725125] iteration 0
736 [2018-12-18 23:37:16.680833] iteration 1
737 [2018-12-18 23:37:19.565092] iteration 2
738 [2018-12-18 23:37:22.477051] iteration 3
739 [2018-12-18 23:37:25.223914] iteration 4
740 [2018-12-18 23:37:28.116840] training MLP [6, 5] witn n=0
    .01
741 [2018-12-18 23:37:28.116840] iteration 0
742 [2018-12-18 23:37:31.037012] iteration 1
743 [2018-12-18 23:37:34.155952] iteration 2
744 [2018-12-18 23:37:37.334529] iteration 3
745 [2018-12-18 23:37:40.244294] iteration 4
746 [2018-12-18 23:37:43.132029] training MLP [6, 5] witn n=0
    .003
747 [2018-12-18 23:37:43.132029] iteration 0
748 [2018-12-18 23:37:45.961993] iteration 1
749 [2018-12-18 23:37:49.005295] iteration 2
750 [2018-12-18 23:37:51.959222] iteration 3
751 [2018-12-18 23:37:54.881620] iteration 4
752 ##### Seeds Experiment - Layers [6, 5]
753
754 Best n:
755 0.3
756 Confusion Matrix:
757 [[13  1  0]
758  [ 0 14  0]
759  [ 1  0 13]]
760 Precision:
761 0.9523809523809523
762 [2018-12-18 23:37:57.848776] training MLP [6, 6] witn n=0
    .3
763 [2018-12-18 23:37:57.848776] iteration 0
764 [2018-12-18 23:38:00.835767] iteration 1
765 [2018-12-18 23:38:03.739224] iteration 2
766 [2018-12-18 23:38:06.674847] iteration 3
767 [2018-12-18 23:38:09.680982] iteration 4
768 [2018-12-18 23:38:12.569842] training MLP [6, 6] witn n=0
    .1
769 [2018-12-18 23:38:12.569842] iteration 0
770 [2018-12-18 23:38:15.553263] iteration 1
771 [2018-12-18 23:38:18.445448] iteration 2
772 [2018-12-18 23:38:21.364718] iteration 3
773 [2018-12-18 23:38:24.366539] iteration 4
774 [2018-12-18 23:38:27.165839] training MLP [6, 6] witn n=0
```

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```
774 .03
775 [2018-12-18 23:38:27.165839] iteration 0
776 [2018-12-18 23:38:29.996542] iteration 1
777 [2018-12-18 23:38:32.803310] iteration 2
778 [2018-12-18 23:38:35.571392] iteration 3
779 [2018-12-18 23:38:38.598936] iteration 4
780 [2018-12-18 23:38:41.506855] training MLP [6, 6] witn n=0
    .01
781 [2018-12-18 23:38:41.506855] iteration 0
782 [2018-12-18 23:38:44.521915] iteration 1
783 [2018-12-18 23:38:47.522212] iteration 2
784 [2018-12-18 23:38:50.427102] iteration 3
785 [2018-12-18 23:38:53.288332] iteration 4
786 [2018-12-18 23:38:56.192687] training MLP [6, 6] witn n=0
    .003
787 [2018-12-18 23:38:56.192687] iteration 0
788 [2018-12-18 23:38:59.053540] iteration 1
789 [2018-12-18 23:39:01.899651] iteration 2
790 [2018-12-18 23:39:04.913006] iteration 3
791 [2018-12-18 23:39:07.864667] iteration 4
792 ##### Seeds Experiment - Layers [6, 6]
793
794 Best n:
795 0.3
796 Confusion Matrix:
797 [[12  1  1]
798 [ 0 14  0]
799 [ 0  0 14]]
800 Precision:
801 0.9523809523809523
802 [2018-12-18 23:39:10.961885] training MLP [3, 3, 3] witn
    n=0.3
803 [2018-12-18 23:39:10.961885] iteration 0
804 [2018-12-18 23:39:14.005434] iteration 1
805 [2018-12-18 23:39:17.054726] iteration 2
806 [2018-12-18 23:39:20.164182] iteration 3
807 [2018-12-18 23:39:23.162451] iteration 4
808 [2018-12-18 23:39:26.366197] training MLP [3, 3, 3] witn
    n=0.1
809 [2018-12-18 23:39:26.366197] iteration 0
810 [2018-12-18 23:39:29.523835] iteration 1
811 [2018-12-18 23:39:32.746583] iteration 2
812 [2018-12-18 23:39:35.767912] iteration 3
813 [2018-12-18 23:39:38.942750] iteration 4
814 [2018-12-18 23:39:42.039389] training MLP [3, 3, 3] witn
```

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```
814 n=0.03
815 [2018-12-18 23:39:42.039389] iteration 0
816 [2018-12-18 23:39:45.292304] iteration 1
817 [2018-12-18 23:39:48.536715] iteration 2
818 [2018-12-18 23:39:51.742229] iteration 3
819 [2018-12-18 23:39:54.895913] iteration 4
820 [2018-12-18 23:39:58.178827] training MLP [3, 3, 3] with
    n=0.01
821 [2018-12-18 23:39:58.178827] iteration 0
822 [2018-12-18 23:40:01.491597] iteration 1
823 [2018-12-18 23:40:04.633068] iteration 2
824 [2018-12-18 23:40:07.741548] iteration 3
825 [2018-12-18 23:40:10.882513] iteration 4
826 [2018-12-18 23:40:13.959440] training MLP [3, 3, 3] with
    n=0.003
827 [2018-12-18 23:40:13.959440] iteration 0
828 [2018-12-18 23:40:17.101926] iteration 1
829 [2018-12-18 23:40:20.334303] iteration 2
830 [2018-12-18 23:40:23.506664] iteration 3
831 [2018-12-18 23:40:26.664153] iteration 4
832 ##### Seeds Experiment - Layers [3, 3, 3]
833
834 Best n:
835 0.3
836 Confusion Matrix:
837 [[13  1  0]
838  [ 0 14  0]
839  [ 9  0  5]]
840 Precision:
841 0.7619047619047619
842 [2018-12-18 23:40:29.868562] training MLP [3, 3, 4] with
    n=0.3
843 [2018-12-18 23:40:29.868562] iteration 0
844 [2018-12-18 23:40:33.023293] iteration 1
845 [2018-12-18 23:40:36.181260] iteration 2
846 [2018-12-18 23:40:39.380743] iteration 3
847 [2018-12-18 23:40:42.616730] iteration 4
848 [2018-12-18 23:40:45.841587] training MLP [3, 3, 4] with
    n=0.1
849 [2018-12-18 23:40:45.841587] iteration 0
850 [2018-12-18 23:40:49.079158] iteration 1
851 [2018-12-18 23:40:52.148180] iteration 2
852 [2018-12-18 23:40:55.336831] iteration 3
853 [2018-12-18 23:40:58.554327] iteration 4
854 [2018-12-18 23:41:01.890542] training MLP [3, 3, 4] with
```

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```
854 n=0.03
855 [2018-12-18 23:41:01.890542] iteration 0
856 [2018-12-18 23:41:04.994485] iteration 1
857 [2018-12-18 23:41:08.267273] iteration 2
858 [2018-12-18 23:41:11.539860] iteration 3
859 [2018-12-18 23:41:14.780982] iteration 4
860 [2018-12-18 23:41:18.135841] training MLP [3, 3, 4] with
n=0.01
861 [2018-12-18 23:41:18.135841] iteration 0
862 [2018-12-18 23:41:21.365814] iteration 1
863 [2018-12-18 23:41:24.538039] iteration 2
864 [2018-12-18 23:41:27.824453] iteration 3
865 [2018-12-18 23:41:30.903829] iteration 4
866 [2018-12-18 23:41:34.016729] training MLP [3, 3, 4] with
n=0.003
867 [2018-12-18 23:41:34.016729] iteration 0
868 [2018-12-18 23:41:37.285289] iteration 1
869 [2018-12-18 23:41:40.366910] iteration 2
870 [2018-12-18 23:41:43.583650] iteration 3
871 [2018-12-18 23:41:46.775169] iteration 4
872 ##### Seeds Experiment - Layers [3, 3, 4]
873
874 Best n:
875 0.3
876 Confusion Matrix:
877 [[13  0  1]
878  [ 1 13  0]
879  [ 1  0 13]]
880 Precision:
881 0.9285714285714286
882 [2018-12-18 23:41:50.084657] training MLP [3, 3, 5] with
n=0.3
883 [2018-12-18 23:41:50.084657] iteration 0
884 [2018-12-18 23:41:53.243882] iteration 1
885 [2018-12-18 23:41:56.477338] iteration 2
886 [2018-12-18 23:41:59.955654] iteration 3
887 [2018-12-18 23:42:03.263140] iteration 4
888 [2018-12-18 23:42:06.397048] training MLP [3, 3, 5] with
n=0.1
889 [2018-12-18 23:42:06.397048] iteration 0
890 [2018-12-18 23:42:09.647478] iteration 1
891 [2018-12-18 23:42:12.894971] iteration 2
892 [2018-12-18 23:42:16.352221] iteration 3
893 [2018-12-18 23:42:19.678816] iteration 4
894 [2018-12-18 23:42:22.862910] training MLP [3, 3, 5] with
```

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```
894 n=0.03
895 [2018-12-18 23:42:22.862910] iteration 0
896 [2018-12-18 23:42:26.127633] iteration 1
897 [2018-12-18 23:42:29.168643] iteration 2
898 [2018-12-18 23:42:32.398583] iteration 3
899 [2018-12-18 23:42:35.600368] iteration 4
900 [2018-12-18 23:42:38.802754] training MLP [3, 3, 5] with
    n=0.01
901 [2018-12-18 23:42:38.802754] iteration 0
902 [2018-12-18 23:42:42.071664] iteration 1
903 [2018-12-18 23:42:45.054062] iteration 2
904 [2018-12-18 23:42:48.233939] iteration 3
905 [2018-12-18 23:42:51.395856] iteration 4
906 [2018-12-18 23:42:54.646151] training MLP [3, 3, 5] with
    n=0.003
907 [2018-12-18 23:42:54.646151] iteration 0
908 [2018-12-18 23:42:57.773484] iteration 1
909 [2018-12-18 23:43:01.056003] iteration 2
910 [2018-12-18 23:43:04.177779] iteration 3
911 [2018-12-18 23:43:07.411503] iteration 4
912 ##### Seeds Experiment - Layers [3, 3, 5]
913
914 Best n:
915 0.3
916 Confusion Matrix:
917 [[13  0  1]
918  [ 1 13  0]
919  [ 1  0 13]]
920 Precision:
921 0.9285714285714286
922 [2018-12-18 23:43:11.008447] training MLP [3, 3, 6] with
    n=0.3
923 [2018-12-18 23:43:11.008447] iteration 0
924 [2018-12-18 23:43:14.171129] iteration 1
925 [2018-12-18 23:43:17.202018] iteration 2
926 [2018-12-18 23:43:20.271246] iteration 3
927 [2018-12-18 23:43:23.288885] iteration 4
928 [2018-12-18 23:43:26.505120] training MLP [3, 3, 6] with
    n=0.1
929 [2018-12-18 23:43:26.505120] iteration 0
930 [2018-12-18 23:43:29.647111] iteration 1
931 [2018-12-18 23:43:33.021049] iteration 2
932 [2018-12-18 23:43:36.164088] iteration 3
933 [2018-12-18 23:43:39.274376] iteration 4
934 [2018-12-18 23:43:42.428584] training MLP [3, 3, 6] with
```

## File - seeds

```
934 n=0.03
935 [2018-12-18 23:43:42.428584] iteration 0
936 [2018-12-18 23:43:45.632704] iteration 1
937 [2018-12-18 23:43:48.774669] iteration 2
938 [2018-12-18 23:43:51.975822] iteration 3
939 [2018-12-18 23:43:55.023758] iteration 4
940 [2018-12-18 23:43:58.087130] training MLP [3, 3, 6] with
    n=0.01
941 [2018-12-18 23:43:58.087130] iteration 0
942 [2018-12-18 23:44:01.398117] iteration 1
943 [2018-12-18 23:44:04.833993] iteration 2
944 [2018-12-18 23:44:07.977292] iteration 3
945 [2018-12-18 23:44:11.351934] iteration 4
946 [2018-12-18 23:44:14.537656] training MLP [3, 3, 6] with
    n=0.003
947 [2018-12-18 23:44:14.537656] iteration 0
948 [2018-12-18 23:44:17.755279] iteration 1
949 [2018-12-18 23:44:20.945762] iteration 2
950 [2018-12-18 23:44:24.053702] iteration 3
951 [2018-12-18 23:44:27.333383] iteration 4
952 ##### Seeds Experiment - Layers [3, 3, 6]
953
954 Best n:
955 0.3
956 Confusion Matrix:
957 [[13  0  1]
958  [ 1 13  0]
959  [ 1  0 13]]
960 Precision:
961 0.9285714285714286
962 [2018-12-18 23:44:30.618240] training MLP [3, 4, 3] with
    n=0.3
963 [2018-12-18 23:44:30.618240] iteration 0
964 [2018-12-18 23:44:33.772993] iteration 1
965 [2018-12-18 23:44:36.881399] iteration 2
966 [2018-12-18 23:44:40.055835] iteration 3
967 [2018-12-18 23:44:43.117794] iteration 4
968 [2018-12-18 23:44:46.271630] training MLP [3, 4, 3] with
    n=0.1
969 [2018-12-18 23:44:46.271630] iteration 0
970 [2018-12-18 23:44:49.520838] iteration 1
971 [2018-12-18 23:44:52.632225] iteration 2
972 [2018-12-18 23:44:55.786702] iteration 3
973 [2018-12-18 23:44:58.836541] iteration 4
974 [2018-12-18 23:45:02.099186] training MLP [3, 4, 3] with
```

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```
974 n=0.03
975 [2018-12-18 23:45:02.099186] iteration 0
976 [2018-12-18 23:45:05.320218] iteration 1
977 [2018-12-18 23:45:08.492697] iteration 2
978 [2018-12-18 23:45:11.490881] iteration 3
979 [2018-12-18 23:45:14.710664] iteration 4
980 [2018-12-18 23:45:17.833716] training MLP [3, 4, 3] withn
    n=0.01
981 [2018-12-18 23:45:17.833716] iteration 0
982 [2018-12-18 23:45:20.821436] iteration 1
983 [2018-12-18 23:45:23.883147] iteration 2
984 [2018-12-18 23:45:27.039115] iteration 3
985 [2018-12-18 23:45:30.213695] iteration 4
986 [2018-12-18 23:45:33.364616] training MLP [3, 4, 3] withn
    n=0.003
987 [2018-12-18 23:45:33.364616] iteration 0
988 [2018-12-18 23:45:36.569149] iteration 1
989 [2018-12-18 23:45:39.725216] iteration 2
990 [2018-12-18 23:45:42.880940] iteration 3
991 [2018-12-18 23:45:46.074101] iteration 4
992 ##### Seeds Experiment - Layers [3, 4, 3]
993
994 Best n:
995 0.3
996 Confusion Matrix:
997 [[10  0  4]
998 [ 2 12  0]
999 [ 0  0 14]]
1000 Precision:
1001 0.8571428571428571
1002 [2018-12-18 23:45:49.382431] training MLP [3, 4, 4] withn
    n=0.3
1003 [2018-12-18 23:45:49.382431] iteration 0
1004 [2018-12-18 23:45:52.583211] iteration 1
1005 [2018-12-18 23:45:55.742019] iteration 2
1006 [2018-12-18 23:45:58.928835] iteration 3
1007 [2018-12-18 23:46:02.164466] iteration 4
1008 [2018-12-18 23:46:05.333401] training MLP [3, 4, 4] withn
    n=0.1
1009 [2018-12-18 23:46:05.333401] iteration 0
1010 [2018-12-18 23:46:08.556025] iteration 1
1011 [2018-12-18 23:46:11.663718] iteration 2
1012 [2018-12-18 23:46:14.804359] iteration 3
1013 [2018-12-18 23:46:18.103360] iteration 4
1014 [2018-12-18 23:46:21.489835] training MLP [3, 4, 4] withn
```

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```
1014 n=0.03
1015 [2018-12-18 23:46:21.489835] iteration 0
1016 [2018-12-18 23:46:24.661998] iteration 1
1017 [2018-12-18 23:46:27.917334] iteration 2
1018 [2018-12-18 23:46:31.218729] iteration 3
1019 [2018-12-18 23:46:34.411708] iteration 4
1020 [2018-12-18 23:46:37.637859] training MLP [3, 4, 4] withn
    n=0.01
1021 [2018-12-18 23:46:37.637859] iteration 0
1022 [2018-12-18 23:46:40.805392] iteration 1
1023 [2018-12-18 23:46:44.256498] iteration 2
1024 [2018-12-18 23:46:47.593103] iteration 3
1025 [2018-12-18 23:46:50.763967] iteration 4
1026 [2018-12-18 23:46:53.945802] training MLP [3, 4, 4] withn
    n=0.003
1027 [2018-12-18 23:46:53.945802] iteration 0
1028 [2018-12-18 23:46:57.067536] iteration 1
1029 [2018-12-18 23:47:00.062821] iteration 2
1030 [2018-12-18 23:47:03.110345] iteration 3
1031 [2018-12-18 23:47:06.140114] iteration 4
1032 ##### Seeds Experiment - Layers [3, 4, 4]
1033
1034 Best n:
1035 0.3
1036 Confusion Matrix:
1037 [[12  1  1]
1038 [ 1 13  0]
1039 [ 2  0 12]]
1040 Precision:
1041 0.8809523809523809
1042 [2018-12-18 23:47:09.380565] training MLP [3, 4, 5] withn
    n=0.3
1043 [2018-12-18 23:47:09.380565] iteration 0
1044 [2018-12-18 23:47:12.517803] iteration 1
1045 [2018-12-18 23:47:15.820288] iteration 2
1046 [2018-12-18 23:47:19.038302] iteration 3
1047 [2018-12-18 23:47:22.161349] iteration 4
1048 [2018-12-18 23:47:25.398718] training MLP [3, 4, 5] withn
    n=0.1
1049 [2018-12-18 23:47:25.398718] iteration 0
1050 [2018-12-18 23:47:28.802193] iteration 1
1051 [2018-12-18 23:47:31.951999] iteration 2
1052 [2018-12-18 23:47:35.104108] iteration 3
1053 [2018-12-18 23:47:38.333467] iteration 4
1054 [2018-12-18 23:47:41.539715] training MLP [3, 4, 5] withn
```

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```
1054 n=0.03
1055 [2018-12-18 23:47:41.539715] iteration 0
1056 [2018-12-18 23:47:44.794269] iteration 1
1057 [2018-12-18 23:47:47.926989] iteration 2
1058 [2018-12-18 23:47:50.991153] iteration 3
1059 [2018-12-18 23:47:54.224738] iteration 4
1060 [2018-12-18 23:47:57.389482] training MLP [3, 4, 5] withn
    n=0.01
1061 [2018-12-18 23:47:57.389482] iteration 0
1062 [2018-12-18 23:48:00.646148] iteration 1
1063 [2018-12-18 23:48:03.896886] iteration 2
1064 [2018-12-18 23:48:07.148308] iteration 3
1065 [2018-12-18 23:48:10.474335] iteration 4
1066 [2018-12-18 23:48:13.693707] training MLP [3, 4, 5] withn
    n=0.003
1067 [2018-12-18 23:48:13.693707] iteration 0
1068 [2018-12-18 23:48:17.014489] iteration 1
1069 [2018-12-18 23:48:20.220203] iteration 2
1070 [2018-12-18 23:48:23.540201] iteration 3
1071 [2018-12-18 23:48:26.711404] iteration 4
1072 ##### Seeds Experiment - Layers [3, 4, 5]
1073
1074 Best n:
1075 0.3
1076 Confusion Matrix:
1077 [[13  0  1]
1078 [ 1 13  0]
1079 [ 1  0 13]]
1080 Precision:
1081 0.9285714285714286
1082 [2018-12-18 23:48:30.154686] training MLP [3, 4, 6] withn
    n=0.3
1083 [2018-12-18 23:48:30.154686] iteration 0
1084 [2018-12-18 23:48:33.371567] iteration 1
1085 [2018-12-18 23:48:36.599131] iteration 2
1086 [2018-12-18 23:48:39.788362] iteration 3
1087 [2018-12-18 23:48:43.088565] iteration 4
1088 [2018-12-18 23:48:46.272306] training MLP [3, 4, 6] withn
    n=0.1
1089 [2018-12-18 23:48:46.272306] iteration 0
1090 [2018-12-18 23:48:49.696109] iteration 1
1091 [2018-12-18 23:48:52.839775] iteration 2
1092 [2018-12-18 23:48:55.974129] iteration 3
1093 [2018-12-18 23:48:59.408724] iteration 4
1094 [2018-12-18 23:49:02.700406] training MLP [3, 4, 6] withn
```

## File - seeds

```
1094 n=0.03
1095 [2018-12-18 23:49:02.700406] iteration 0
1096 [2018-12-18 23:49:06.014696] iteration 1
1097 [2018-12-18 23:49:09.240521] iteration 2
1098 [2018-12-18 23:49:12.462785] iteration 3
1099 [2018-12-18 23:49:15.679404] iteration 4
1100 [2018-12-18 23:49:18.866691] training MLP [3, 4, 6] withn
    n=0.01
1101 [2018-12-18 23:49:18.866691] iteration 0
1102 [2018-12-18 23:49:22.101292] iteration 1
1103 [2018-12-18 23:49:25.299218] iteration 2
1104 [2018-12-18 23:49:28.602718] iteration 3
1105 [2018-12-18 23:49:31.804679] iteration 4
1106 [2018-12-18 23:49:34.939337] training MLP [3, 4, 6] withn
    n=0.003
1107 [2018-12-18 23:49:34.939337] iteration 0
1108 [2018-12-18 23:49:38.153981] iteration 1
1109 [2018-12-18 23:49:41.320839] iteration 2
1110 [2018-12-18 23:49:44.461743] iteration 3
1111 [2018-12-18 23:49:47.655340] iteration 4
1112 ##### Seeds Experiment - Layers [3, 4, 6]
1113
1114 Best n:
1115 0.3
1116 Confusion Matrix:
1117 [[14  0  0]
1118 [ 1 13  0]
1119 [ 1  0 13]]
1120 Precision:
1121 0.9523809523809523
1122 [2018-12-18 23:49:51.036761] training MLP [3, 5, 3] withn
    n=0.3
1123 [2018-12-18 23:49:51.036761] iteration 0
1124 [2018-12-18 23:49:54.179495] iteration 1
1125 [2018-12-18 23:49:57.381935] iteration 2
1126 [2018-12-18 23:50:00.583642] iteration 3
1127 [2018-12-18 23:50:03.899624] iteration 4
1128 [2018-12-18 23:50:06.930943] training MLP [3, 5, 3] withn
    n=0.1
1129 [2018-12-18 23:50:06.930943] iteration 0
1130 [2018-12-18 23:50:10.084622] iteration 1
1131 [2018-12-18 23:50:13.428174] iteration 2
1132 [2018-12-18 23:50:16.491334] iteration 3
1133 [2018-12-18 23:50:19.695455] iteration 4
1134 [2018-12-18 23:50:22.862277] training MLP [3, 5, 3] withn
```

## File - seeds

```
1134 n=0.03
1135 [2018-12-18 23:50:22.862277] iteration 0
1136 [2018-12-18 23:50:26.082575] iteration 1
1137 [2018-12-18 23:50:29.289156] iteration 2
1138 [2018-12-18 23:50:32.410678] iteration 3
1139 [2018-12-18 23:50:35.443789] iteration 4
1140 [2018-12-18 23:50:38.598624] training MLP [3, 5, 3] withn
    n=0.01
1141 [2018-12-18 23:50:38.598624] iteration 0
1142 [2018-12-18 23:50:41.710961] iteration 1
1143 [2018-12-18 23:50:44.888070] iteration 2
1144 [2018-12-18 23:50:48.081067] iteration 3
1145 [2018-12-18 23:50:51.257705] iteration 4
1146 [2018-12-18 23:50:54.491137] training MLP [3, 5, 3] withn
    n=0.003
1147 [2018-12-18 23:50:54.491137] iteration 0
1148 [2018-12-18 23:50:57.539009] iteration 1
1149 [2018-12-18 23:51:00.458307] iteration 2
1150 [2018-12-18 23:51:03.712219] iteration 3
1151 [2018-12-18 23:51:06.914114] iteration 4
1152 ##### Seeds Experiment - Layers [3, 5, 3]
1153
1154 Best n:
1155 0.3
1156 Confusion Matrix:
1157 [[10  1  3]
1158 [ 0 14  0]
1159 [ 0  0 14]]
1160 Precision:
1161 0.9047619047619048
1162 [2018-12-18 23:51:10.287464] training MLP [3, 5, 4] withn
    n=0.3
1163 [2018-12-18 23:51:10.287464] iteration 0
1164 [2018-12-18 23:51:13.522035] iteration 1
1165 [2018-12-18 23:51:16.755860] iteration 2
1166 [2018-12-18 23:51:19.927054] iteration 3
1167 [2018-12-18 23:51:22.994728] iteration 4
1168 [2018-12-18 23:51:26.105547] training MLP [3, 5, 4] withn
    n=0.1
1169 [2018-12-18 23:51:26.105547] iteration 0
1170 [2018-12-18 23:51:29.224566] iteration 1
1171 [2018-12-18 23:51:32.398451] iteration 2
1172 [2018-12-18 23:51:35.583692] iteration 3
1173 [2018-12-18 23:51:38.787932] iteration 4
1174 [2018-12-18 23:51:41.962264] training MLP [3, 5, 4] withn
```

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```
1174 n=0.03
1175 [2018-12-18 23:51:41.962264] iteration 0
1176 [2018-12-18 23:51:45.140535] iteration 1
1177 [2018-12-18 23:51:48.383396] iteration 2
1178 [2018-12-18 23:51:51.522405] iteration 3
1179 [2018-12-18 23:51:54.755199] iteration 4
1180 [2018-12-18 23:51:57.934007] training MLP [3, 5, 4] withn
    n=0.01
1181 [2018-12-18 23:51:57.934007] iteration 0
1182 [2018-12-18 23:52:01.160994] iteration 1
1183 [2018-12-18 23:52:04.412779] iteration 2
1184 [2018-12-18 23:52:07.591333] iteration 3
1185 [2018-12-18 23:52:10.649192] iteration 4
1186 [2018-12-18 23:52:13.928307] training MLP [3, 5, 4] withn
    n=0.003
1187 [2018-12-18 23:52:13.928307] iteration 0
1188 [2018-12-18 23:52:17.162357] iteration 1
1189 [2018-12-18 23:52:20.570299] iteration 2
1190 [2018-12-18 23:52:23.835321] iteration 3
1191 [2018-12-18 23:52:26.991691] iteration 4
1192 ##### Seeds Experiment - Layers [3, 5, 4]
1193
1194 Best n:
1195 0.3
1196 Confusion Matrix:
1197 [[12  1  1]
1198 [ 0 14  0]
1199 [ 1  0 13]]
1200 Precision:
1201 0.9285714285714286
1202 [2018-12-18 23:52:30.214388] training MLP [3, 5, 5] withn
    n=0.3
1203 [2018-12-18 23:52:30.214388] iteration 0
1204 [2018-12-18 23:52:33.320848] iteration 1
1205 [2018-12-18 23:52:36.631746] iteration 2
1206 [2018-12-18 23:52:39.692557] iteration 3
1207 [2018-12-18 23:52:42.819197] iteration 4
1208 [2018-12-18 23:52:46.132599] training MLP [3, 5, 5] withn
    n=0.1
1209 [2018-12-18 23:52:46.132599] iteration 0
1210 [2018-12-18 23:52:49.350370] iteration 1
1211 [2018-12-18 23:52:52.451972] iteration 2
1212 [2018-12-18 23:52:55.599178] iteration 3
1213 [2018-12-18 23:52:58.773621] iteration 4
1214 [2018-12-18 23:53:01.821596] training MLP [3, 5, 5] withn
```

## File - seeds

```
1214 n=0.03
1215 [2018-12-18 23:53:01.821596] iteration 0
1216 [2018-12-18 23:53:05.076101] iteration 1
1217 [2018-12-18 23:53:08.458724] iteration 2
1218 [2018-12-18 23:53:11.726372] iteration 3
1219 [2018-12-18 23:53:14.960025] iteration 4
1220 [2018-12-18 23:53:18.252816] training MLP [3, 5, 5] withn
    n=0.01
1221 [2018-12-18 23:53:18.252816] iteration 0
1222 [2018-12-18 23:53:21.334075] iteration 1
1223 [2018-12-18 23:53:24.568536] iteration 2
1224 [2018-12-18 23:53:27.973747] iteration 3
1225 [2018-12-18 23:53:31.261922] iteration 4
1226 [2018-12-18 23:53:34.397840] training MLP [3, 5, 5] withn
    n=0.003
1227 [2018-12-18 23:53:34.397840] iteration 0
1228 [2018-12-18 23:53:37.584108] iteration 1
1229 [2018-12-18 23:53:40.743030] iteration 2
1230 [2018-12-18 23:53:43.960464] iteration 3
1231 [2018-12-18 23:53:47.091841] iteration 4
1232 ##### Seeds Experiment - Layers [3, 5, 5]
1233
1234 Best n:
1235 0.3
1236 Confusion Matrix:
1237 [[13  0  1]
1238 [ 1 13  0]
1239 [ 1  0 13]]
1240 Precision:
1241 0.9285714285714286
1242 [2018-12-18 23:53:50.302120] training MLP [3, 5, 6] withn
    n=0.3
1243 [2018-12-18 23:53:50.302120] iteration 0
1244 [2018-12-18 23:53:53.524475] iteration 1
1245 [2018-12-18 23:53:56.742437] iteration 2
1246 [2018-12-18 23:54:00.007023] iteration 3
1247 [2018-12-18 23:54:03.166158] iteration 4
1248 [2018-12-18 23:54:06.570845] training MLP [3, 5, 6] withn
    n=0.1
1249 [2018-12-18 23:54:06.570845] iteration 0
1250 [2018-12-18 23:54:09.802238] iteration 1
1251 [2018-12-18 23:54:12.964616] iteration 2
1252 [2018-12-18 23:54:16.140046] iteration 3
1253 [2018-12-18 23:54:19.318060] iteration 4
1254 [2018-12-18 23:54:22.609449] training MLP [3, 5, 6] withn
```

## File - seeds

```
1254 n=0.03
1255 [2018-12-18 23:54:22.609449] iteration 0
1256 [2018-12-18 23:54:25.849826] iteration 1
1257 [2018-12-18 23:54:29.052389] iteration 2
1258 [2018-12-18 23:54:32.368201] iteration 3
1259 [2018-12-18 23:54:35.521602] iteration 4
1260 [2018-12-18 23:54:38.663154] training MLP [3, 5, 6] withn
    n=0.01
1261 [2018-12-18 23:54:38.663154] iteration 0
1262 [2018-12-18 23:54:41.926933] iteration 1
1263 [2018-12-18 23:54:45.039704] iteration 2
1264 [2018-12-18 23:54:48.367916] iteration 3
1265 [2018-12-18 23:54:51.819269] iteration 4
1266 [2018-12-18 23:54:55.334993] training MLP [3, 5, 6] withn
    n=0.003
1267 [2018-12-18 23:54:55.334993] iteration 0
1268 [2018-12-18 23:54:58.599980] iteration 1
1269 [2018-12-18 23:55:01.724806] iteration 2
1270 [2018-12-18 23:55:05.005995] iteration 3
1271 [2018-12-18 23:55:08.216779] iteration 4
1272 ##### Seeds Experiment - Layers [3, 5, 6]
1273
1274 Best n:
1275 0.3
1276 Confusion Matrix:
1277 [[13  0  1]
1278 [ 1 13  0]
1279 [ 1  0 13]]
1280 Precision:
1281 0.9285714285714286
1282 [2018-12-18 23:55:11.743427] training MLP [3, 6, 3] withn
    n=0.3
1283 [2018-12-18 23:55:11.743427] iteration 0
1284 [2018-12-18 23:55:15.230754] iteration 1
1285 [2018-12-18 23:55:18.445153] iteration 2
1286 [2018-12-18 23:55:21.474651] iteration 3
1287 [2018-12-18 23:55:24.678528] iteration 4
1288 [2018-12-18 23:55:27.604275] training MLP [3, 6, 3] withn
    n=0.1
1289 [2018-12-18 23:55:27.604275] iteration 0
1290 [2018-12-18 23:55:30.756125] iteration 1
1291 [2018-12-18 23:55:33.945673] iteration 2
1292 [2018-12-18 23:55:37.132141] iteration 3
1293 [2018-12-18 23:55:40.335201] iteration 4
1294 [2018-12-18 23:55:43.647073] training MLP [3, 6, 3] withn
```

## File - seeds

```
1294 n=0.03
1295 [2018-12-18 23:55:43.647073] iteration 0
1296 [2018-12-18 23:55:46.929066] iteration 1
1297 [2018-12-18 23:55:50.118077] iteration 2
1298 [2018-12-18 23:55:53.249396] iteration 3
1299 [2018-12-18 23:55:56.317818] iteration 4
1300 [2018-12-18 23:55:59.352817] training MLP [3, 6, 3] withn
    n=0.01
1301 [2018-12-18 23:55:59.352817] iteration 0
1302 [2018-12-18 23:56:02.509113] iteration 1
1303 [2018-12-18 23:56:05.751431] iteration 2
1304 [2018-12-18 23:56:08.927393] iteration 3
1305 [2018-12-18 23:56:11.992627] iteration 4
1306 [2018-12-18 23:56:15.287973] training MLP [3, 6, 3] withn
    n=0.003
1307 [2018-12-18 23:56:15.287973] iteration 0
1308 [2018-12-18 23:56:18.506457] iteration 1
1309 [2018-12-18 23:56:21.708681] iteration 2
1310 [2018-12-18 23:56:24.820694] iteration 3
1311 [2018-12-18 23:56:28.129131] iteration 4
1312 ##### Seeds Experiment - Layers [3, 6, 3]
1313
1314 Best n:
1315 0.3
1316 Confusion Matrix:
1317 [[ 0  5  9]
1318 [ 0 14  0]
1319 [ 0  0 14]]
1320 Precision:
1321 0.6666666666666666
1322 [2018-12-18 23:56:31.507907] training MLP [3, 6, 4] withn
    n=0.3
1323 [2018-12-18 23:56:31.507907] iteration 0
1324 [2018-12-18 23:56:34.755452] iteration 1
1325 [2018-12-18 23:56:37.944558] iteration 2
1326 [2018-12-18 23:56:41.181021] iteration 3
1327 [2018-12-18 23:56:44.588622] iteration 4
1328 [2018-12-18 23:56:47.727741] training MLP [3, 6, 4] withn
    n=0.1
1329 [2018-12-18 23:56:47.727741] iteration 0
1330 [2018-12-18 23:56:51.007923] iteration 1
1331 [2018-12-18 23:56:54.225172] iteration 2
1332 [2018-12-18 23:56:57.429591] iteration 3
1333 [2018-12-18 23:57:00.602375] iteration 4
1334 [2018-12-18 23:57:03.991956] training MLP [3, 6, 4] withn
```

## File - seeds

```
1334 n=0.03
1335 [2018-12-18 23:57:03.991956] iteration 0
1336 [2018-12-18 23:57:07.137795] iteration 1
1337 [2018-12-18 23:57:10.334180] iteration 2
1338 [2018-12-18 23:57:13.521087] iteration 3
1339 [2018-12-18 23:57:16.817741] iteration 4
1340 [2018-12-18 23:57:19.975869] training MLP [3, 6, 4] withn
    n=0.01
1341 [2018-12-18 23:57:19.975869] iteration 0
1342 [2018-12-18 23:57:23.218224] iteration 1
1343 [2018-12-18 23:57:26.631048] iteration 2
1344 [2018-12-18 23:57:29.945887] iteration 3
1345 [2018-12-18 23:57:33.281629] iteration 4
1346 [2018-12-18 23:57:36.461821] training MLP [3, 6, 4] withn
    n=0.003
1347 [2018-12-18 23:57:36.461821] iteration 0
1348 [2018-12-18 23:57:39.630252] iteration 1
1349 [2018-12-18 23:57:42.892623] iteration 2
1350 [2018-12-18 23:57:46.034866] iteration 3
1351 [2018-12-18 23:57:49.208946] iteration 4
1352 ##### Seeds Experiment - Layers [3, 6, 4]
1353
1354 Best n:
1355 0.3
1356 Confusion Matrix:
1357 [[14  0  0]
1358 [ 2 12  0]
1359 [ 2  0 12]]
1360 Precision:
1361 0.9047619047619048
1362 [2018-12-18 23:57:52.643466] training MLP [3, 6, 5] withn
    n=0.3
1363 [2018-12-18 23:57:52.643466] iteration 0
1364 [2018-12-18 23:57:55.739906] iteration 1
1365 [2018-12-18 23:57:58.819776] iteration 2
1366 [2018-12-18 23:58:01.974074] iteration 3
1367 [2018-12-18 23:58:05.180715] iteration 4
1368 [2018-12-18 23:58:08.450242] training MLP [3, 6, 5] withn
    n=0.1
1369 [2018-12-18 23:58:08.450242] iteration 0
1370 [2018-12-18 23:58:11.772474] iteration 1
1371 [2018-12-18 23:58:14.768212] iteration 2
1372 [2018-12-18 23:58:17.977671] iteration 3
1373 [2018-12-18 23:58:21.133183] iteration 4
1374 [2018-12-18 23:58:24.364841] training MLP [3, 6, 5] withn
```

## File - seeds

```
1374 n=0.03
1375 [2018-12-18 23:58:24.364841] iteration 0
1376 [2018-12-18 23:58:27.631609] iteration 1
1377 [2018-12-18 23:58:31.446032] iteration 2
1378 [2018-12-18 23:58:35.614805] iteration 3
1379 [2018-12-18 23:58:39.086304] iteration 4
1380 [2018-12-18 23:58:42.312388] training MLP [3, 6, 5] withn
    n=0.01
1381 [2018-12-18 23:58:42.312388] iteration 0
1382 [2018-12-18 23:58:45.568445] iteration 1
1383 [2018-12-18 23:58:48.756241] iteration 2
1384 [2018-12-18 23:58:51.959876] iteration 3
1385 [2018-12-18 23:58:55.292782] iteration 4
1386 [2018-12-18 23:58:58.601209] training MLP [3, 6, 5] withn
    n=0.003
1387 [2018-12-18 23:58:58.601209] iteration 0
1388 [2018-12-18 23:59:01.927320] iteration 1
1389 [2018-12-18 23:59:05.196568] iteration 2
1390 [2018-12-18 23:59:08.458809] iteration 3
1391 [2018-12-18 23:59:11.786595] iteration 4
1392 ##### Seeds Experiment - Layers [3, 6, 5]
1393
1394 Best n:
1395 0.3
1396 Confusion Matrix:
1397 [[12  0  2]
1398 [ 1 13  0]
1399 [ 3  0 11]]
1400 Precision:
1401 0.8571428571428571
1402 [2018-12-18 23:59:15.060757] training MLP [3, 6, 6] withn
    n=0.3
1403 [2018-12-18 23:59:15.060757] iteration 0
1404 [2018-12-18 23:59:18.443036] iteration 1
1405 [2018-12-18 23:59:21.680146] iteration 2
1406 [2018-12-18 23:59:24.864811] iteration 3
1407 [2018-12-18 23:59:28.102327] iteration 4
1408 [2018-12-18 23:59:31.411586] training MLP [3, 6, 6] withn
    n=0.1
1409 [2018-12-18 23:59:31.411586] iteration 0
1410 [2018-12-18 23:59:34.677937] iteration 1
1411 [2018-12-18 23:59:37.914569] iteration 2
1412 [2018-12-18 23:59:41.056660] iteration 3
1413 [2018-12-18 23:59:44.319434] iteration 4
1414 [2018-12-18 23:59:47.507297] training MLP [3, 6, 6] withn
```

## File - seeds

```
1414 n=0.03
1415 [2018-12-18 23:59:47.507297] iteration 0
1416 [2018-12-18 23:59:50.711684] iteration 1
1417 [2018-12-18 23:59:53.789476] iteration 2
1418 [2018-12-18 23:59:56.927258] iteration 3
1419 [2018-12-19 00:00:00.208529] iteration 4
1420 [2018-12-19 00:00:03.412927] training MLP [3, 6, 6] withn
    n=0.01
1421 [2018-12-19 00:00:03.412927] iteration 0
1422 [2018-12-19 00:00:06.677751] iteration 1
1423 [2018-12-19 00:00:09.930281] iteration 2
1424 [2018-12-19 00:00:13.046468] iteration 3
1425 [2018-12-19 00:00:16.336680] iteration 4
1426 [2018-12-19 00:00:19.555823] training MLP [3, 6, 6] withn
    n=0.003
1427 [2018-12-19 00:00:19.555823] iteration 0
1428 [2018-12-19 00:00:22.672210] iteration 1
1429 [2018-12-19 00:00:26.079866] iteration 2
1430 [2018-12-19 00:00:29.115095] iteration 3
1431 [2018-12-19 00:00:32.367507] iteration 4
1432 ##### Seeds Experiment - Layers [3, 6, 6]
1433
1434 Best n:
1435 0.3
1436 Confusion Matrix:
1437 [[12 1 1]
1438 [ 0 14 0]
1439 [ 1 0 13]]
1440 Precision:
1441 0.9285714285714286
1442 [2018-12-19 00:00:35.757540] training MLP [4, 3, 3] withn
    n=0.3
1443 [2018-12-19 00:00:35.757540] iteration 0
1444 [2018-12-19 00:00:38.882298] iteration 1
1445 [2018-12-19 00:00:42.037946] iteration 2
1446 [2018-12-19 00:00:45.071091] iteration 3
1447 [2018-12-19 00:00:48.300783] iteration 4
1448 [2018-12-19 00:00:51.599368] training MLP [4, 3, 3] withn
    n=0.1
1449 [2018-12-19 00:00:51.599368] iteration 0
1450 [2018-12-19 00:00:54.696695] iteration 1
1451 [2018-12-19 00:00:57.816896] iteration 2
1452 [2018-12-19 00:01:01.069834] iteration 3
1453 [2018-12-19 00:01:04.194281] iteration 4
1454 [2018-12-19 00:01:07.226470] training MLP [4, 3, 3] withn
```

## File - seeds

```
1454 n=0.03
1455 [2018-12-19 00:01:07.226470] iteration 0
1456 [2018-12-19 00:01:10.215600] iteration 1
1457 [2018-12-19 00:01:13.427642] iteration 2
1458 [2018-12-19 00:01:16.583361] iteration 3
1459 [2018-12-19 00:01:19.647463] iteration 4
1460 [2018-12-19 00:01:22.822602] training MLP [4, 3, 3] withn
    n=0.01
1461 [2018-12-19 00:01:22.822602] iteration 0
1462 [2018-12-19 00:01:26.091777] iteration 1
1463 [2018-12-19 00:01:29.202783] iteration 2
1464 [2018-12-19 00:01:32.290162] iteration 3
1465 [2018-12-19 00:01:35.460039] iteration 4
1466 [2018-12-19 00:01:38.633747] training MLP [4, 3, 3] withn
    n=0.003
1467 [2018-12-19 00:01:38.633747] iteration 0
1468 [2018-12-19 00:01:41.851680] iteration 1
1469 [2018-12-19 00:01:45.010711] iteration 2
1470 [2018-12-19 00:01:48.185330] iteration 3
1471 [2018-12-19 00:01:51.428342] iteration 4
1472 ##### Seeds Experiment - Layers [4, 3, 3]
1473
1474 Best n:
1475 0.3
1476 Confusion Matrix:
1477 [[13  0  1]
1478 [ 1 13  0]
1479 [ 1  0 13]]
1480 Precision:
1481 0.9285714285714286
1482 [2018-12-19 00:01:54.742409] training MLP [4, 3, 4] withn
    n=0.3
1483 [2018-12-19 00:01:54.742409] iteration 0
1484 [2018-12-19 00:01:57.811987] iteration 1
1485 [2018-12-19 00:02:00.867931] iteration 2
1486 [2018-12-19 00:02:04.039449] iteration 3
1487 [2018-12-19 00:02:07.101148] iteration 4
1488 [2018-12-19 00:02:10.244903] training MLP [4, 3, 4] withn
    n=0.1
1489 [2018-12-19 00:02:10.244903] iteration 0
1490 [2018-12-19 00:02:13.412080] iteration 1
1491 [2018-12-19 00:02:16.647606] iteration 2
1492 [2018-12-19 00:02:19.804164] iteration 3
1493 [2018-12-19 00:02:22.972023] iteration 4
1494 [2018-12-19 00:02:26.131739] training MLP [4, 3, 4] withn
```

## File - seeds

```
1494 n=0.03
1495 [2018-12-19 00:02:26.131739] iteration 0
1496 [2018-12-19 00:02:29.462141] iteration 1
1497 [2018-12-19 00:02:32.691995] iteration 2
1498 [2018-12-19 00:02:35.907532] iteration 3
1499 [2018-12-19 00:02:39.037398] iteration 4
1500 [2018-12-19 00:02:42.349510] training MLP [4, 3, 4] withn
    n=0.01
1501 [2018-12-19 00:02:42.349510] iteration 0
1502 [2018-12-19 00:02:45.490116] iteration 1
1503 [2018-12-19 00:02:48.663924] iteration 2
1504 [2018-12-19 00:02:51.849539] iteration 3
1505 [2018-12-19 00:02:55.036614] iteration 4
1506 [2018-12-19 00:02:58.227421] training MLP [4, 3, 4] withn
    n=0.003
1507 [2018-12-19 00:02:58.227421] iteration 0
1508 [2018-12-19 00:03:01.383226] iteration 1
1509 [2018-12-19 00:03:04.569970] iteration 2
1510 [2018-12-19 00:03:07.838925] iteration 3
1511 [2018-12-19 00:03:11.179524] iteration 4
1512 ##### Seeds Experiment - Layers [4, 3, 4]
1513
1514 Best n:
1515 0.3
1516 Confusion Matrix:
1517 [[12  1  1]
1518 [ 0 14  0]
1519 [ 1  0 13]]
1520 Precision:
1521 0.9285714285714286
1522 [2018-12-19 00:03:14.412251] training MLP [4, 3, 5] withn
    n=0.3
1523 [2018-12-19 00:03:14.412251] iteration 0
1524 [2018-12-19 00:03:17.652367] iteration 1
1525 [2018-12-19 00:03:20.509119] iteration 2
1526 [2018-12-19 00:03:23.428154] iteration 3
1527 [2018-12-19 00:03:26.413850] iteration 4
1528 [2018-12-19 00:03:29.366669] training MLP [4, 3, 5] withn
    n=0.1
1529 [2018-12-19 00:03:29.366669] iteration 0
1530 [2018-12-19 00:03:32.317965] iteration 1
1531 [2018-12-19 00:03:35.064645] iteration 2
1532 [2018-12-19 00:03:37.786537] iteration 3
1533 [2018-12-19 00:03:40.540371] iteration 4
1534 [2018-12-19 00:03:43.351197] training MLP [4, 3, 5] withn
```

## File - seeds

```
1534 n=0.03
1535 [2018-12-19 00:03:43.351197] iteration 0
1536 [2018-12-19 00:03:46.127467] iteration 1
1537 [2018-12-19 00:03:49.209080] iteration 2
1538 [2018-12-19 00:03:52.228447] iteration 3
1539 [2018-12-19 00:03:55.182009] iteration 4
1540 [2018-12-19 00:03:58.107217] training MLP [4, 3, 5] withn
    n=0.01
1541 [2018-12-19 00:03:58.107217] iteration 0
1542 [2018-12-19 00:04:00.788530] iteration 1
1543 [2018-12-19 00:04:03.648754] iteration 2
1544 [2018-12-19 00:04:06.350811] iteration 3
1545 [2018-12-19 00:04:09.088063] iteration 4
1546 [2018-12-19 00:04:12.042500] training MLP [4, 3, 5] withn
    n=0.003
1547 [2018-12-19 00:04:12.042500] iteration 0
1548 [2018-12-19 00:04:15.023181] iteration 1
1549 [2018-12-19 00:04:17.998797] iteration 2
1550 [2018-12-19 00:04:20.959722] iteration 3
1551 [2018-12-19 00:04:23.708016] iteration 4
1552 ##### Seeds Experiment - Layers [4, 3, 5]
1553
1554 Best n:
1555 0.3
1556 Confusion Matrix:
1557 [[13  0  1]
1558 [ 1 13  0]
1559 [ 1  0 13]]
1560 Precision:
1561 0.9285714285714286
1562 [2018-12-19 00:04:26.537478] training MLP [4, 3, 6] withn
    n=0.3
1563 [2018-12-19 00:04:26.537478] iteration 0
1564 [2018-12-19 00:04:29.286302] iteration 1
1565 [2018-12-19 00:04:32.021553] iteration 2
1566 [2018-12-19 00:04:34.786752] iteration 3
1567 [2018-12-19 00:04:37.726898] iteration 4
1568 [2018-12-19 00:04:40.632989] training MLP [4, 3, 6] withn
    n=0.1
1569 [2018-12-19 00:04:40.632989] iteration 0
1570 [2018-12-19 00:04:43.539148] iteration 1
1571 [2018-12-19 00:04:46.319341] iteration 2
1572 [2018-12-19 00:04:49.024713] iteration 3
1573 [2018-12-19 00:04:51.788703] iteration 4
1574 [2018-12-19 00:04:54.633427] training MLP [4, 3, 6] withn
```

## File - seeds

```
1574 n=0.03
1575 [2018-12-19 00:04:54.633427] iteration 0
1576 [2018-12-19 00:04:57.352373] iteration 1
1577 [2018-12-19 00:05:00.295589] iteration 2
1578 [2018-12-19 00:05:03.188716] iteration 3
1579 [2018-12-19 00:05:06.177538] iteration 4
1580 [2018-12-19 00:05:09.162271] training MLP [4, 3, 6] withn
    n=0.01
1581 [2018-12-19 00:05:09.162271] iteration 0
1582 [2018-12-19 00:05:11.914184] iteration 1
1583 [2018-12-19 00:05:14.677107] iteration 2
1584 [2018-12-19 00:05:17.444581] iteration 3
1585 [2018-12-19 00:05:20.248810] iteration 4
1586 [2018-12-19 00:05:23.064291] training MLP [4, 3, 6] withn
    n=0.003
1587 [2018-12-19 00:05:23.064291] iteration 0
1588 [2018-12-19 00:05:26.022925] iteration 1
1589 [2018-12-19 00:05:29.008717] iteration 2
1590 [2018-12-19 00:05:31.898268] iteration 3
1591 [2018-12-19 00:05:34.708313] iteration 4
1592 ##### Seeds Experiment - Layers [4, 3, 6]
1593
1594 Best n:
1595 0.3
1596 Confusion Matrix:
1597 [[13  0  1]
1598 [ 1 13  0]
1599 [ 1  0 13]]
1600 Precision:
1601 0.9285714285714286
1602 [2018-12-19 00:05:37.537978] training MLP [4, 4, 3] withn
    n=0.3
1603 [2018-12-19 00:05:37.537978] iteration 0
1604 [2018-12-19 00:05:40.309903] iteration 1
1605 [2018-12-19 00:05:43.771382] iteration 2
1606 [2018-12-19 06:56:05.516566] iteration 3
1607 [2018-12-19 06:56:11.821471] iteration 4
1608 [2018-12-19 06:56:16.761855] training MLP [4, 4, 3] withn
    n=0.1
1609 [2018-12-19 06:56:16.761855] iteration 0
1610 [2018-12-19 06:56:21.275558] iteration 1
1611 [2018-12-19 06:56:25.506261] iteration 2
1612 [2018-12-19 06:56:28.465262] iteration 3
1613 [2018-12-19 06:56:31.458035] iteration 4
1614 [2018-12-19 06:56:33.912922] training MLP [4, 4, 3] withn
```

## File - seeds

```
1614 n=0.03
1615 [2018-12-19 06:56:33.912922] iteration 0
1616 [2018-12-19 06:56:36.220193] iteration 1
1617 [2018-12-19 06:56:38.521925] iteration 2
1618 [2018-12-19 06:56:40.897557] iteration 3
1619 [2018-12-19 06:56:43.474609] iteration 4
1620 [2018-12-19 06:56:45.942792] training MLP [4, 4, 3] withn
    n=0.01
1621 [2018-12-19 06:56:45.942792] iteration 0
1622 [2018-12-19 06:56:48.271865] iteration 1
1623 [2018-12-19 06:56:50.658836] iteration 2
1624 [2018-12-19 06:56:53.013111] iteration 3
1625 [2018-12-19 06:56:55.354171] iteration 4
1626 [2018-12-19 06:56:57.538764] training MLP [4, 4, 3] withn
    n=0.003
1627 [2018-12-19 06:56:57.538764] iteration 0
1628 [2018-12-19 06:56:59.816815] iteration 1
1629 [2018-12-19 06:57:02.001401] iteration 2
1630 [2018-12-19 06:57:04.286058] iteration 3
1631 [2018-12-19 06:57:06.660474] iteration 4
1632 ##### Seeds Experiment - Layers [4, 4, 3]
1633
1634 Best n:
1635 0.3
1636 Confusion Matrix:
1637 [[10  1  3]
1638 [ 0 14  0]
1639 [ 0  0 14]]
1640 Precision:
1641 0.9047619047619048
1642 [2018-12-19 06:57:09.204895] training MLP [4, 4, 4] withn
    n=0.3
1643 [2018-12-19 06:57:09.204895] iteration 0
1644 [2018-12-19 06:57:11.659917] iteration 1
1645 [2018-12-19 06:57:14.060487] iteration 2
1646 [2018-12-19 06:57:16.576431] iteration 3
1647 [2018-12-19 06:57:18.841162] iteration 4
1648 [2018-12-19 06:57:21.080952] training MLP [4, 4, 4] withn
    n=0.1
1649 [2018-12-19 06:57:21.081951] iteration 0
1650 [2018-12-19 06:57:23.382543] iteration 1
1651 [2018-12-19 06:57:25.698905] iteration 2
1652 [2018-12-19 06:57:28.581297] iteration 3
1653 [2018-12-19 06:57:31.116468] iteration 4
1654 [2018-12-19 06:57:33.723097] training MLP [4, 4, 4] withn
```

## File - seeds

```
1654 n=0.03
1655 [2018-12-19 06:57:33.723097] iteration 0
1656 [2018-12-19 06:57:36.308805] iteration 1
1657 [2018-12-19 06:57:38.896567] iteration 2
1658 [2018-12-19 06:57:41.180083] iteration 3
1659 [2018-12-19 06:57:43.486050] iteration 4
1660 [2018-12-19 06:57:45.842118] training MLP [4, 4, 4] withn
    n=0.01
1661 [2018-12-19 06:57:45.842118] iteration 0
1662 [2018-12-19 06:57:48.130194] iteration 1
1663 [2018-12-19 06:57:50.456329] iteration 2
1664 [2018-12-19 06:57:52.878844] iteration 3
1665 [2018-12-19 06:57:55.426572] iteration 4
1666 [2018-12-19 06:57:57.990383] training MLP [4, 4, 4] withn
    n=0.003
1667 [2018-12-19 06:57:57.990383] iteration 0
1668 [2018-12-19 06:58:00.481365] iteration 1
1669 [2018-12-19 06:58:02.897370] iteration 2
1670 [2018-12-19 06:58:05.158251] iteration 3
1671 [2018-12-19 06:58:07.439016] iteration 4
1672 ##### Seeds Experiment - Layers [4, 4, 4]
1673
1674 Best n:
1675 0.3
1676 Confusion Matrix:
1677 [[13  0  1]
1678 [ 1 13  0]
1679 [ 2  0 12]]
1680 Precision:
1681 0.9047619047619048
1682 [2018-12-19 06:58:09.896971] training MLP [4, 4, 5] withn
    n=0.3
1683 [2018-12-19 06:58:09.896971] iteration 0
1684 [2018-12-19 06:58:12.224228] iteration 1
1685 [2018-12-19 06:58:14.778178] iteration 2
1686 [2018-12-19 06:58:17.475246] iteration 3
1687 [2018-12-19 06:58:19.871708] iteration 4
1688 [2018-12-19 06:58:22.568132] training MLP [4, 4, 5] withn
    n=0.1
1689 [2018-12-19 06:58:22.568132] iteration 0
1690 [2018-12-19 06:58:25.349739] iteration 1
1691 [2018-12-19 06:58:28.021261] iteration 2
1692 [2018-12-19 06:58:30.825221] iteration 3
1693 [2018-12-19 06:58:33.489844] iteration 4
1694 [2018-12-19 06:58:36.233421] training MLP [4, 4, 5] withn
```

## File - seeds

```
1694 n=0.03
1695 [2018-12-19 06:58:36.233421] iteration 0
1696 [2018-12-19 06:58:38.553540] iteration 1
1697 [2018-12-19 06:58:40.897253] iteration 2
1698 [2018-12-19 06:58:43.350032] iteration 3
1699 [2018-12-19 06:58:45.707033] iteration 4
1700 [2018-12-19 06:58:48.067643] training MLP [4, 4, 5] withn
    n=0.01
1701 [2018-12-19 06:58:48.067643] iteration 0
1702 [2018-12-19 06:58:50.459055] iteration 1
1703 [2018-12-19 06:58:52.927887] iteration 2
1704 [2018-12-19 06:58:55.482569] iteration 3
1705 [2018-12-19 06:58:57.990203] iteration 4
1706 [2018-12-19 06:59:00.536428] training MLP [4, 4, 5] withn
    n=0.003
1707 [2018-12-19 06:59:00.536428] iteration 0
1708 [2018-12-19 06:59:02.864399] iteration 1
1709 [2018-12-19 06:59:05.459076] iteration 2
1710 [2018-12-19 06:59:08.442682] iteration 3
1711 [2018-12-19 06:59:11.066532] iteration 4
1712 ##### Seeds Experiment - Layers [4, 4, 5]
1713
1714 Best n:
1715 0.3
1716 Confusion Matrix:
1717 [[13  0  1]
1718 [ 1 13  0]
1719 [ 1  0 13]]
1720 Precision:
1721 0.9285714285714286
1722 [2018-12-19 06:59:15.068297] training MLP [4, 4, 6] withn
    n=0.3
1723 [2018-12-19 06:59:15.068297] iteration 0
1724 [2018-12-19 06:59:19.645703] iteration 1
1725 [2018-12-19 06:59:23.708426] iteration 2
1726 [2018-12-19 06:59:26.989990] iteration 3
1727 [2018-12-19 06:59:30.239713] iteration 4
1728 [2018-12-19 06:59:33.708445] training MLP [4, 4, 6] withn
    n=0.1
1729 [2018-12-19 06:59:33.708445] iteration 0
1730 [2018-12-19 06:59:36.719940] iteration 1
1731 [2018-12-19 06:59:39.880342] iteration 2
1732 [2018-12-19 06:59:43.083360] iteration 3
1733 [2018-12-19 06:59:46.315425] iteration 4
1734 [2018-12-19 06:59:49.209408] training MLP [4, 4, 6] withn
```

## File - seeds

```
1734 n=0.03
1735 [2018-12-19 06:59:49.209408] iteration 0
1736 [2018-12-19 06:59:51.975444] iteration 1
1737 [2018-12-19 06:59:54.662307] iteration 2
1738 [2018-12-19 06:59:57.302359] iteration 3
1739 [2018-12-19 07:00:00.633371] iteration 4
1740 [2018-12-19 07:00:03.724390] training MLP [4, 4, 6] withn
    n=0.01
1741 [2018-12-19 07:00:03.724390] iteration 0
1742 [2018-12-19 07:00:06.744930] iteration 1
1743 [2018-12-19 07:00:09.708459] iteration 2
1744 [2018-12-19 07:00:12.600047] iteration 3
1745 [2018-12-19 07:00:15.161812] iteration 4
1746 [2018-12-19 07:00:17.817611] training MLP [4, 4, 6] withn
    n=0.003
1747 [2018-12-19 07:00:17.817611] iteration 0
1748 [2018-12-19 07:00:20.553353] iteration 1
1749 [2018-12-19 07:00:23.224284] iteration 2
1750 [2018-12-19 07:00:25.895875] iteration 3
1751 [2018-12-19 07:00:28.880408] iteration 4
1752 ##### Seeds Experiment - Layers [4, 4, 6]
1753
1754 Best n:
1755 0.3
1756 Confusion Matrix:
1757 [[13  0  1]
1758 [ 1 13  0]
1759 [ 1  0 13]]
1760 Precision:
1761 0.9285714285714286
1762 [2018-12-19 07:00:31.752865] training MLP [4, 5, 3] withn
    n=0.3
1763 [2018-12-19 07:00:31.752865] iteration 0
1764 [2018-12-19 07:00:34.660935] iteration 1
1765 [2018-12-19 07:00:37.412825] iteration 2
1766 [2018-12-19 07:00:39.989995] iteration 3
1767 [2018-12-19 07:00:42.583653] iteration 4
1768 [2018-12-19 07:00:45.193240] training MLP [4, 5, 3] withn
    n=0.1
1769 [2018-12-19 07:00:45.193240] iteration 0
1770 [2018-12-19 07:00:47.740302] iteration 1
1771 [2018-12-19 07:00:50.379753] iteration 2
1772 [2018-12-19 07:00:53.411424] iteration 3
1773 [2018-12-19 07:00:56.311921] iteration 4
1774 [2018-12-19 07:00:59.270983] training MLP [4, 5, 3] withn
```

## File - seeds

```
1774 n=0.03
1775 [2018-12-19 07:00:59.270983] iteration 0
1776 [2018-12-19 07:01:02.068498] iteration 1
1777 [2018-12-19 07:01:05.130098] iteration 2
1778 [2018-12-19 07:01:09.755122] iteration 3
1779 [2018-12-19 07:01:13.849405] iteration 4
1780 [2018-12-19 07:01:16.801136] training MLP [4, 5, 3] withn
    n=0.01
1781 [2018-12-19 07:01:16.801136] iteration 0
1782 [2018-12-19 07:01:19.646841] iteration 1
1783 [2018-12-19 07:01:22.302429] iteration 2
1784 [2018-12-19 07:01:24.766938] iteration 3
1785 [2018-12-19 07:01:27.193601] iteration 4
1786 [2018-12-19 07:01:29.693716] training MLP [4, 5, 3] withn
    n=0.003
1787 [2018-12-19 07:01:29.693716] iteration 0
1788 [2018-12-19 07:01:32.083372] iteration 1
1789 [2018-12-19 07:01:34.520695] iteration 2
1790 [2018-12-19 07:01:36.897212] iteration 3
1791 [2018-12-19 07:01:39.302821] iteration 4
1792 ##### Seeds Experiment - Layers [4, 5, 3]
1793
1794 Best n:
1795 0.3
1796 Confusion Matrix:
1797 [[12  1  1]
1798 [ 0 14  0]
1799 [ 0  0 14]]
1800 Precision:
1801 0.9523809523809523
1802 [2018-12-19 07:01:42.162827] training MLP [4, 5, 4] withn
    n=0.3
1803 [2018-12-19 07:01:42.162827] iteration 0
1804 [2018-12-19 07:01:44.599484] iteration 1
1805 [2018-12-19 07:01:47.021670] iteration 2
1806 [2018-12-19 07:01:49.397343] iteration 3
1807 [2018-12-19 07:01:51.715601] iteration 4
1808 [2018-12-19 07:01:54.145610] training MLP [4, 5, 4] withn
    n=0.1
1809 [2018-12-19 07:01:54.145610] iteration 0
1810 [2018-12-19 07:01:56.618232] iteration 1
1811 [2018-12-19 07:01:59.100599] iteration 2
1812 [2018-12-19 07:02:01.493659] iteration 3
1813 [2018-12-19 07:02:03.864788] iteration 4
1814 [2018-12-19 07:02:06.285036] training MLP [4, 5, 4] withn
```

## File - seeds

```
1814 n=0.03
1815 [2018-12-19 07:02:06.285036] iteration 0
1816 [2018-12-19 07:02:08.756269] iteration 1
1817 [2018-12-19 07:02:11.160378] iteration 2
1818 [2018-12-19 07:02:13.661451] iteration 3
1819 [2018-12-19 07:02:16.100767] iteration 4
1820 [2018-12-19 07:02:18.567244] training MLP [4, 5, 4] withn
    n=0.01
1821 [2018-12-19 07:02:18.567244] iteration 0
1822 [2018-12-19 07:02:20.969652] iteration 1
1823 [2018-12-19 07:02:23.444370] iteration 2
1824 [2018-12-19 07:02:25.881925] iteration 3
1825 [2018-12-19 07:02:28.286603] iteration 4
1826 [2018-12-19 07:02:30.709522] training MLP [4, 5, 4] withn
    n=0.003
1827 [2018-12-19 07:02:30.709522] iteration 0
1828 [2018-12-19 07:02:33.130437] iteration 1
1829 [2018-12-19 07:02:35.584277] iteration 2
1830 [2018-12-19 07:02:38.037728] iteration 3
1831 [2018-12-19 07:02:40.520719] iteration 4
1832 ##### Seeds Experiment - Layers [4, 5, 4]
1833
1834 Best n:
1835 0.3
1836 Confusion Matrix:
1837 [[13  0  1]
1838 [ 1 13  0]
1839 [ 1  0 13]]
1840 Precision:
1841 0.9285714285714286
1842 [2018-12-19 07:02:43.089639] training MLP [4, 5, 5] withn
    n=0.3
1843 [2018-12-19 07:02:43.089639] iteration 0
1844 [2018-12-19 07:02:45.552830] iteration 1
1845 [2018-12-19 07:02:47.958836] iteration 2
1846 [2018-12-19 07:02:50.365232] iteration 3
1847 [2018-12-19 07:02:52.895801] iteration 4
1848 [2018-12-19 07:02:55.380906] training MLP [4, 5, 5] withn
    n=0.1
1849 [2018-12-19 07:02:55.380906] iteration 0
1850 [2018-12-19 07:02:57.818800] iteration 1
1851 [2018-12-19 07:03:00.256429] iteration 2
1852 [2018-12-19 07:03:02.711938] iteration 3
1853 [2018-12-19 07:03:05.147209] iteration 4
1854 [2018-12-19 07:03:07.578171] training MLP [4, 5, 5] withn
```

## File - seeds

```
1854 n=0.03
1855 [2018-12-19 07:03:07.578171] iteration 0
1856 [2018-12-19 07:03:10.100211] iteration 1
1857 [2018-12-19 07:03:12.536235] iteration 2
1858 [2018-12-19 07:03:14.959652] iteration 3
1859 [2018-12-19 07:03:17.317904] iteration 4
1860 [2018-12-19 07:03:19.748846] training MLP [4, 5, 5] withn
    n=0.01
1861 [2018-12-19 07:03:19.748846] iteration 0
1862 [2018-12-19 07:03:22.253018] iteration 1
1863 [2018-12-19 07:03:24.652108] iteration 2
1864 [2018-12-19 07:03:27.123604] iteration 3
1865 [2018-12-19 07:03:29.468444] iteration 4
1866 [2018-12-19 07:03:31.756403] training MLP [4, 5, 5] withn
    n=0.003
1867 [2018-12-19 07:03:31.756403] iteration 0
1868 [2018-12-19 07:03:33.996181] iteration 1
1869 [2018-12-19 07:03:36.291538] iteration 2
1870 [2018-12-19 07:03:38.511326] iteration 3
1871 [2018-12-19 07:03:40.881999] iteration 4
1872 ##### Seeds Experiment - Layers [4, 5, 5]
1873
1874 Best n:
1875 0.3
1876 Confusion Matrix:
1877 [[13  0  1]
1878 [ 1 13  0]
1879 [ 1  0 13]]
1880 Precision:
1881 0.9285714285714286
1882 [2018-12-19 07:03:43.705441] training MLP [4, 5, 6] withn
    n=0.3
1883 [2018-12-19 07:03:43.705441] iteration 0
1884 [2018-12-19 07:03:46.912945] iteration 1
1885 [2018-12-19 07:03:50.318754] iteration 2
1886 [2018-12-19 07:03:53.132534] iteration 3
1887 [2018-12-19 07:03:55.857586] iteration 4
1888 [2018-12-19 07:03:58.707272] training MLP [4, 5, 6] withn
    n=0.1
1889 [2018-12-19 07:03:58.707272] iteration 0
1890 [2018-12-19 07:04:01.442350] iteration 1
1891 [2018-12-19 07:04:04.199502] iteration 2
1892 [2018-12-19 07:04:06.853566] iteration 3
1893 [2018-12-19 07:04:09.747465] iteration 4
1894 [2018-12-19 07:04:12.784821] training MLP [4, 5, 6] withn
```

## File - seeds

```
1894 n=0.03
1895 [2018-12-19 07:04:12.784821] iteration 0
1896 [2018-12-19 07:04:15.796075] iteration 1
1897 [2018-12-19 07:04:18.500961] iteration 2
1898 [2018-12-19 07:04:21.005318] iteration 3
1899 [2018-12-19 07:04:23.490501] iteration 4
1900 [2018-12-19 07:04:26.022607] training MLP [4, 5, 6] withn
    n=0.01
1901 [2018-12-19 07:04:26.022607] iteration 0
1902 [2018-12-19 07:04:28.605325] iteration 1
1903 [2018-12-19 07:04:30.827906] iteration 2
1904 [2018-12-19 07:04:33.067712] iteration 3
1905 [2018-12-19 07:04:35.313755] iteration 4
1906 [2018-12-19 07:04:37.605638] training MLP [4, 5, 6] withn
    n=0.003
1907 [2018-12-19 07:04:37.605638] iteration 0
1908 [2018-12-19 07:04:39.859429] iteration 1
1909 [2018-12-19 07:04:42.099065] iteration 2
1910 [2018-12-19 07:04:44.330191] iteration 3
1911 [2018-12-19 07:04:46.581090] iteration 4
1912 ##### Seeds Experiment - Layers [4, 5, 6]
1913
1914 Best n:
1915 0.3
1916 Confusion Matrix:
1917 [[13  0  1]
1918 [ 1 13  0]
1919 [ 1  0 13]]
1920 Precision:
1921 0.9285714285714286
1922 [2018-12-19 07:04:48.912887] training MLP [4, 6, 3] withn
    n=0.3
1923 [2018-12-19 07:04:48.912887] iteration 0
1924 [2018-12-19 07:04:51.178364] iteration 1
1925 [2018-12-19 07:04:53.409550] iteration 2
1926 [2018-12-19 07:04:55.655329] iteration 3
1927 [2018-12-19 07:04:57.903194] iteration 4
1928 [2018-12-19 07:05:00.194664] training MLP [4, 6, 3] withn
    n=0.1
1929 [2018-12-19 07:05:00.194664] iteration 0
1930 [2018-12-19 07:05:02.458012] iteration 1
1931 [2018-12-19 07:05:04.672434] iteration 2
1932 [2018-12-19 07:05:06.972004] iteration 3
1933 [2018-12-19 07:05:09.195850] iteration 4
1934 [2018-12-19 07:05:11.489279] training MLP [4, 6, 3] withn
```

## File - seeds

```
1934 n=0.03
1935 [2018-12-19 07:05:11.489279] iteration 0
1936 [2018-12-19 07:05:13.720156] iteration 1
1937 [2018-12-19 07:05:16.041029] iteration 2
1938 [2018-12-19 07:05:18.365533] iteration 3
1939 [2018-12-19 07:05:20.648405] iteration 4
1940 [2018-12-19 07:05:22.973953] training MLP [4, 6, 3] withn
    n=0.01
1941 [2018-12-19 07:05:22.973953] iteration 0
1942 [2018-12-19 07:05:25.202999] iteration 1
1943 [2018-12-19 07:05:27.465022] iteration 2
1944 [2018-12-19 07:05:29.674725] iteration 3
1945 [2018-12-19 07:05:32.515347] iteration 4
1946 [2018-12-19 07:05:35.005424] training MLP [4, 6, 3] withn
    n=0.003
1947 [2018-12-19 07:05:35.005424] iteration 0
1948 [2018-12-19 07:05:37.328028] iteration 1
1949 [2018-12-19 07:05:39.615149] iteration 2
1950 [2018-12-19 07:05:41.856707] iteration 3
1951 [2018-12-19 07:05:44.137829] iteration 4
1952 ##### Seeds Experiment - Layers [4, 6, 3]
1953
1954 Best n:
1955 0.3
1956 Confusion Matrix:
1957 [[ 8  5  1]
1958 [ 0 14  0]
1959 [ 2  0 12]]
1960 Precision:
1961 0.8095238095238095
1962 [2018-12-19 07:05:46.576785] training MLP [4, 6, 4] withn
    n=0.3
1963 [2018-12-19 07:05:46.576785] iteration 0
1964 [2018-12-19 07:05:48.847795] iteration 1
1965 [2018-12-19 07:05:51.101066] iteration 2
1966 [2018-12-19 07:05:53.381447] iteration 3
1967 [2018-12-19 07:05:55.629647] iteration 4
1968 [2018-12-19 07:05:57.928769] training MLP [4, 6, 4] withn
    n=0.1
1969 [2018-12-19 07:05:57.928769] iteration 0
1970 [2018-12-19 07:06:00.205315] iteration 1
1971 [2018-12-19 07:06:02.473471] iteration 2
1972 [2018-12-19 07:06:04.703814] iteration 3
1973 [2018-12-19 07:06:07.067311] iteration 4
1974 [2018-12-19 07:06:09.397202] training MLP [4, 6, 4] withn
```

## File - seeds

```
1974 n=0.03
1975 [2018-12-19 07:06:09.397202] iteration 0
1976 [2018-12-19 07:06:11.717490] iteration 1
1977 [2018-12-19 07:06:14.323434] iteration 2
1978 [2018-12-19 07:06:16.707975] iteration 3
1979 [2018-12-19 07:06:18.990276] iteration 4
1980 [2018-12-19 07:06:21.357658] training MLP [4, 6, 4] withn
    n=0.01
1981 [2018-12-19 07:06:21.357658] iteration 0
1982 [2018-12-19 07:06:23.620149] iteration 1
1983 [2018-12-19 07:06:25.889950] iteration 2
1984 [2018-12-19 07:06:28.192605] iteration 3
1985 [2018-12-19 07:06:30.636626] iteration 4
1986 [2018-12-19 07:06:32.960950] training MLP [4, 6, 4] withn
    n=0.003
1987 [2018-12-19 07:06:32.960950] iteration 0
1988 [2018-12-19 07:06:35.312069] iteration 1
1989 [2018-12-19 07:06:37.752518] iteration 2
1990 [2018-12-19 07:06:40.048667] iteration 3
1991 [2018-12-19 07:06:42.365161] iteration 4
1992 ##### Seeds Experiment - Layers [4, 6, 4]
1993
1994 Best n:
1995 0.3
1996 Confusion Matrix:
1997 [[13 0 1]
1998 [ 1 13 0]
1999 [ 2 0 12]]
2000 Precision:
2001 0.9047619047619048
2002 [2018-12-19 07:06:44.830136] training MLP [4, 6, 5] withn
    n=0.3
2003 [2018-12-19 07:06:44.830136] iteration 0
2004 [2018-12-19 07:06:47.131588] iteration 1
2005 [2018-12-19 07:06:49.541530] iteration 2
2006 [2018-12-19 07:06:51.876425] iteration 3
2007 [2018-12-19 07:06:54.203827] iteration 4
2008 [2018-12-19 07:06:56.437411] training MLP [4, 6, 5] withn
    n=0.1
2009 [2018-12-19 07:06:56.437411] iteration 0
2010 [2018-12-19 07:06:58.644638] iteration 1
2011 [2018-12-19 07:07:00.982397] iteration 2
2012 [2018-12-19 07:07:03.569769] iteration 3
2013 [2018-12-19 07:07:05.845843] iteration 4
2014 [2018-12-19 07:07:08.199185] training MLP [4, 6, 5] withn
```

## File - seeds

```
2014 n=0.03
2015 [2018-12-19 07:07:08.199185] iteration 0
2016 [2018-12-19 07:07:10.532669] iteration 1
2017 [2018-12-19 07:07:13.221988] iteration 2
2018 [2018-12-19 07:07:15.498995] iteration 3
2019 [2018-12-19 07:07:17.892706] iteration 4
2020 [2018-12-19 07:07:20.162507] training MLP [4, 6, 5] withn
    n=0.01
2021 [2018-12-19 07:07:20.162507] iteration 0
2022 [2018-12-19 07:07:22.423896] iteration 1
2023 [2018-12-19 07:07:24.659510] iteration 2
2024 [2018-12-19 07:07:26.896375] iteration 3
2025 [2018-12-19 07:07:29.249562] iteration 4
2026 [2018-12-19 07:07:31.549413] training MLP [4, 6, 5] withn
    n=0.003
2027 [2018-12-19 07:07:31.549413] iteration 0
2028 [2018-12-19 07:07:33.824504] iteration 1
2029 [2018-12-19 07:07:36.091958] iteration 2
2030 [2018-12-19 07:07:38.344580] iteration 3
2031 [2018-12-19 07:07:40.573601] iteration 4
2032 ##### Seeds Experiment - Layers [4, 6, 5]
2033
2034 Best n:
2035 0.3
2036 Confusion Matrix:
2037 [[14  0  0]
2038 [ 1 13  0]
2039 [ 1  0 13]]
2040 Precision:
2041 0.9523809523809523
2042 [2018-12-19 07:07:42.943105] training MLP [4, 6, 6] withn
    n=0.3
2043 [2018-12-19 07:07:42.943105] iteration 0
2044 [2018-12-19 07:07:45.219323] iteration 1
2045 [2018-12-19 07:07:47.563569] iteration 2
2046 [2018-12-19 07:07:49.979164] iteration 3
2047 [2018-12-19 07:07:52.214142] iteration 4
2048 [2018-12-19 07:07:54.441924] training MLP [4, 6, 6] withn
    n=0.1
2049 [2018-12-19 07:07:54.441924] iteration 0
2050 [2018-12-19 07:07:56.751198] iteration 1
2051 [2018-12-19 07:07:59.119626] iteration 2
2052 [2018-12-19 07:08:01.366740] iteration 3
2053 [2018-12-19 07:08:03.624867] iteration 4
2054 [2018-12-19 07:08:05.925781] training MLP [4, 6, 6] withn
```

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```
2054 n=0.03
2055 [2018-12-19 07:08:05.925781] iteration 0
2056 [2018-12-19 07:08:08.202100] iteration 1
2057 [2018-12-19 07:08:10.518556] iteration 2
2058 [2018-12-19 07:08:12.848526] iteration 3
2059 [2018-12-19 07:08:15.151735] iteration 4
2060 [2018-12-19 07:08:17.491695] training MLP [4, 6, 6] withn
    n=0.01
2061 [2018-12-19 07:08:17.507319] iteration 0
2062 [2018-12-19 07:08:19.722996] iteration 1
2063 [2018-12-19 07:08:22.006122] iteration 2
2064 [2018-12-19 07:08:24.334027] iteration 3
2065 [2018-12-19 07:08:26.716160] iteration 4
2066 [2018-12-19 07:08:29.050515] training MLP [4, 6, 6] withn
    n=0.003
2067 [2018-12-19 07:08:29.050515] iteration 0
2068 [2018-12-19 07:08:31.449761] iteration 1
2069 [2018-12-19 07:08:33.717663] iteration 2
2070 [2018-12-19 07:08:35.958809] iteration 3
2071 [2018-12-19 07:08:38.313603] iteration 4
2072 ##### Seeds Experiment - Layers [4, 6, 6]
2073
2074 Best n:
2075 0.3
2076 Confusion Matrix:
2077 [[13  0  1]
2078 [ 1 13  0]
2079 [ 1  0 13]]
2080 Precision:
2081 0.9285714285714286
2082 [2018-12-19 07:08:40.644010] training MLP [5, 3, 3] withn
    n=0.3
2083 [2018-12-19 07:08:40.644010] iteration 0
2084 [2018-12-19 07:08:43.006227] iteration 1
2085 [2018-12-19 07:08:45.305329] iteration 2
2086 [2018-12-19 07:08:47.631025] iteration 3
2087 [2018-12-19 07:08:49.869182] iteration 4
2088 [2018-12-19 07:08:52.147714] training MLP [5, 3, 3] withn
    n=0.1
2089 [2018-12-19 07:08:52.147714] iteration 0
2090 [2018-12-19 07:08:54.544870] iteration 1
2091 [2018-12-19 07:08:56.777481] iteration 2
2092 [2018-12-19 07:08:59.077225] iteration 3
2093 [2018-12-19 07:09:01.442374] iteration 4
2094 [2018-12-19 07:09:03.714163] training MLP [5, 3, 3] withn
```

## File - seeds

```
2094 n=0.03
2095 [2018-12-19 07:09:03.714163] iteration 0
2096 [2018-12-19 07:09:05.912799] iteration 1
2097 [2018-12-19 07:09:08.130644] iteration 2
2098 [2018-12-19 07:09:10.427938] iteration 3
2099 [2018-12-19 07:09:12.697064] iteration 4
2100 [2018-12-19 07:09:14.901525] training MLP [5, 3, 3] withn
    n=0.01
2101 [2018-12-19 07:09:14.901525] iteration 0
2102 [2018-12-19 07:09:17.131745] iteration 1
2103 [2018-12-19 07:09:19.381824] iteration 2
2104 [2018-12-19 07:09:21.578128] iteration 3
2105 [2018-12-19 07:09:23.799374] iteration 4
2106 [2018-12-19 07:09:26.006376] training MLP [5, 3, 3] withn
    n=0.003
2107 [2018-12-19 07:09:26.006376] iteration 0
2108 [2018-12-19 07:09:28.302426] iteration 1
2109 [2018-12-19 07:09:30.484354] iteration 2
2110 [2018-12-19 07:09:32.812292] iteration 3
2111 [2018-12-19 07:09:35.068483] iteration 4
2112 ##### Seeds Experiment - Layers [5, 3, 3]
2113
2114 Best n:
2115 0.3
2116 Confusion Matrix:
2117 [[13  0  1]
2118 [ 3 11  0]
2119 [ 2  0 12]]
2120 Precision:
2121 0.8571428571428571
2122 [2018-12-19 07:09:37.412750] training MLP [5, 3, 4] withn
    n=0.3
2123 [2018-12-19 07:09:37.412750] iteration 0
2124 [2018-12-19 07:09:39.786234] iteration 1
2125 [2018-12-19 07:09:42.248573] iteration 2
2126 [2018-12-19 07:09:44.647772] iteration 3
2127 [2018-12-19 07:09:46.881819] iteration 4
2128 [2018-12-19 07:09:49.146217] training MLP [5, 3, 4] withn
    n=0.1
2129 [2018-12-19 07:09:49.146217] iteration 0
2130 [2018-12-19 07:09:51.406633] iteration 1
2131 [2018-12-19 07:09:53.662409] iteration 2
2132 [2018-12-19 07:09:55.901070] iteration 3
2133 [2018-12-19 07:09:58.255291] iteration 4
2134 [2018-12-19 07:10:00.455046] training MLP [5, 3, 4] withn
```

## File - seeds

```
2134 n=0.03
2135 [2018-12-19 07:10:00.455046] iteration 0
2136 [2018-12-19 07:10:02.665051] iteration 1
2137 [2018-12-19 07:10:04.923651] iteration 2
2138 [2018-12-19 07:10:07.213458] iteration 3
2139 [2018-12-19 07:10:09.501843] iteration 4
2140 [2018-12-19 07:10:11.826777] training MLP [5, 3, 4] withn
    n=0.01
2141 [2018-12-19 07:10:11.826777] iteration 0
2142 [2018-12-19 07:10:14.038444] iteration 1
2143 [2018-12-19 07:10:16.249827] iteration 2
2144 [2018-12-19 07:10:18.439913] iteration 3
2145 [2018-12-19 07:10:20.701902] iteration 4
2146 [2018-12-19 07:10:22.995496] training MLP [5, 3, 4] withn
    n=0.003
2147 [2018-12-19 07:10:22.995496] iteration 0
2148 [2018-12-19 07:10:25.185190] iteration 1
2149 [2018-12-19 07:10:27.408351] iteration 2
2150 [2018-12-19 07:10:29.656750] iteration 3
2151 [2018-12-19 07:10:31.860647] iteration 4
2152 ##### Seeds Experiment - Layers [5, 3, 4]
2153
2154 Best n:
2155 0.3
2156 Confusion Matrix:
2157 [[12  0  2]
2158 [ 1 13  0]
2159 [ 1  0 13]]
2160 Precision:
2161 0.9047619047619048
2162 [2018-12-19 07:10:34.192982] training MLP [5, 3, 5] withn
    n=0.3
2163 [2018-12-19 07:10:34.192982] iteration 0
2164 [2018-12-19 07:10:36.536175] iteration 1
2165 [2018-12-19 07:10:38.756942] iteration 2
2166 [2018-12-19 07:10:40.974362] iteration 3
2167 [2018-12-19 07:10:43.242912] iteration 4
2168 [2018-12-19 07:10:45.443159] training MLP [5, 3, 5] withn
    n=0.1
2169 [2018-12-19 07:10:45.443159] iteration 0
2170 [2018-12-19 07:10:47.673562] iteration 1
2171 [2018-12-19 07:10:49.974424] iteration 2
2172 [2018-12-19 07:10:52.305291] iteration 3
2173 [2018-12-19 07:10:54.522987] iteration 4
2174 [2018-12-19 07:10:56.822078] training MLP [5, 3, 5] withn
```

## File - seeds

```
2174 n=0.03
2175 [2018-12-19 07:10:56.822078] iteration 0
2176 [2018-12-19 07:10:59.247773] iteration 1
2177 [2018-12-19 07:11:01.463421] iteration 2
2178 [2018-12-19 07:11:03.694484] iteration 3
2179 [2018-12-19 07:11:06.005363] iteration 4
2180 [2018-12-19 07:11:08.233411] training MLP [5, 3, 5] withn
    n=0.01
2181 [2018-12-19 07:11:08.233411] iteration 0
2182 [2018-12-19 07:11:10.480656] iteration 1
2183 [2018-12-19 07:11:12.710795] iteration 2
2184 [2018-12-19 07:11:14.927590] iteration 3
2185 [2018-12-19 07:11:17.232961] iteration 4
2186 [2018-12-19 07:11:19.525672] training MLP [5, 3, 5] withn
    n=0.003
2187 [2018-12-19 07:11:19.525672] iteration 0
2188 [2018-12-19 07:11:21.782341] iteration 1
2189 [2018-12-19 07:11:24.052200] iteration 2
2190 [2018-12-19 07:11:26.248202] iteration 3
2191 [2018-12-19 07:11:28.539362] iteration 4
2192 ##### Seeds Experiment - Layers [5, 3, 5]
2193
2194 Best n:
2195 0.3
2196 Confusion Matrix:
2197 [[13  0  1]
2198 [ 1 13  0]
2199 [ 1  0 13]]
2200 Precision:
2201 0.9285714285714286
2202 [2018-12-19 07:11:30.877681] training MLP [5, 3, 6] withn
    n=0.3
2203 [2018-12-19 07:11:30.877681] iteration 0
2204 [2018-12-19 07:11:33.245259] iteration 1
2205 [2018-12-19 07:11:35.483927] iteration 2
2206 [2018-12-19 07:11:37.740271] iteration 3
2207 [2018-12-19 07:11:39.974566] iteration 4
2208 [2018-12-19 07:11:42.364482] training MLP [5, 3, 6] withn
    n=0.1
2209 [2018-12-19 07:11:42.364482] iteration 0
2210 [2018-12-19 07:11:44.654491] iteration 1
2211 [2018-12-19 07:11:46.990345] iteration 2
2212 [2018-12-19 07:11:49.250661] iteration 3
2213 [2018-12-19 07:11:51.489324] iteration 4
2214 [2018-12-19 07:11:53.724636] training MLP [5, 3, 6] withn
```

## File - seeds

```
2214 n=0.03
2215 [2018-12-19 07:11:53.724636] iteration 0
2216 [2018-12-19 07:11:55.989763] iteration 1
2217 [2018-12-19 07:11:58.349141] iteration 2
2218 [2018-12-19 07:12:00.711354] iteration 3
2219 [2018-12-19 07:12:02.943622] iteration 4
2220 [2018-12-19 07:12:05.287063] training MLP [5, 3, 6] withn
    n=0.01
2221 [2018-12-19 07:12:05.287063] iteration 0
2222 [2018-12-19 07:12:07.601291] iteration 1
2223 [2018-12-19 07:12:10.255334] iteration 2
2224 [2018-12-19 07:12:12.700717] iteration 3
2225 [2018-12-19 07:12:15.006806] iteration 4
2226 [2018-12-19 07:12:17.249119] training MLP [5, 3, 6] withn
    n=0.003
2227 [2018-12-19 07:12:17.249119] iteration 0
2228 [2018-12-19 07:12:19.633555] iteration 1
2229 [2018-12-19 07:12:21.911399] iteration 2
2230 [2018-12-19 07:12:24.335007] iteration 3
2231 [2018-12-19 07:12:26.597996] iteration 4
2232 ##### Seeds Experiment - Layers [5, 3, 6]
2233
2234 Best n:
2235 0.3
2236 Confusion Matrix:
2237 [[13  0  1]
2238 [ 1 13  0]
2239 [ 1  0 13]]
2240 Precision:
2241 0.9285714285714286
2242 [2018-12-19 07:12:29.239751] training MLP [5, 4, 3] withn
    n=0.3
2243 [2018-12-19 07:12:29.239751] iteration 0
2244 [2018-12-19 07:12:31.553119] iteration 1
2245 [2018-12-19 07:12:33.723336] iteration 2
2246 [2018-12-19 07:12:35.960050] iteration 3
2247 [2018-12-19 07:12:38.224846] iteration 4
2248 [2018-12-19 07:12:40.553073] training MLP [5, 4, 3] withn
    n=0.1
2249 [2018-12-19 07:12:40.553073] iteration 0
2250 [2018-12-19 07:12:42.802388] iteration 1
2251 [2018-12-19 07:12:45.006287] iteration 2
2252 [2018-12-19 07:12:47.334709] iteration 3
2253 [2018-12-19 07:12:49.600503] iteration 4
2254 [2018-12-19 07:12:51.834108] training MLP [5, 4, 3] withn
```

## File - seeds

```
2254 n=0.03
2255 [2018-12-19 07:12:51.834108] iteration 0
2256 [2018-12-19 07:12:54.177089] iteration 1
2257 [2018-12-19 07:12:56.495067] iteration 2
2258 [2018-12-19 07:12:58.767064] iteration 3
2259 [2018-12-19 07:13:01.079153] iteration 4
2260 [2018-12-19 07:13:03.293751] training MLP [5, 4, 3] withn
    n=0.01
2261 [2018-12-19 07:13:03.293751] iteration 0
2262 [2018-12-19 07:13:05.528152] iteration 1
2263 [2018-12-19 07:13:07.747802] iteration 2
2264 [2018-12-19 07:13:10.013190] iteration 3
2265 [2018-12-19 07:13:12.317352] iteration 4
2266 [2018-12-19 07:13:14.568370] training MLP [5, 4, 3] withn
    n=0.003
2267 [2018-12-19 07:13:14.568370] iteration 0
2268 [2018-12-19 07:13:16.803850] iteration 1
2269 [2018-12-19 07:13:19.136762] iteration 2
2270 [2018-12-19 07:13:21.400207] iteration 3
2271 [2018-12-19 07:13:23.663110] iteration 4
2272 ##### Seeds Experiment - Layers [5, 4, 3]
2273
2274 Best n:
2275 0.3
2276 Confusion Matrix:
2277 [[11  0  3]
2278 [ 2 12  0]
2279 [ 0  0 14]]
2280 Precision:
2281 0.8809523809523809
2282 [2018-12-19 07:13:26.005159] training MLP [5, 4, 4] withn
    n=0.3
2283 [2018-12-19 07:13:26.005159] iteration 0
2284 [2018-12-19 07:13:28.247853] iteration 1
2285 [2018-12-19 07:13:30.567822] iteration 2
2286 [2018-12-19 07:13:32.822646] iteration 3
2287 [2018-12-19 07:13:35.114533] iteration 4
2288 [2018-12-19 07:13:37.349773] training MLP [5, 4, 4] withn
    n=0.1
2289 [2018-12-19 07:13:37.349773] iteration 0
2290 [2018-12-19 07:13:39.644096] iteration 1
2291 [2018-12-19 07:13:41.895991] iteration 2
2292 [2018-12-19 07:13:44.189025] iteration 3
2293 [2018-12-19 07:13:46.583265] iteration 4
2294 [2018-12-19 07:13:48.818154] training MLP [5, 4, 4] withn
```

## File - seeds

```
2294 n=0.03
2295 [2018-12-19 07:13:48.818154] iteration 0
2296 [2018-12-19 07:13:51.130340] iteration 1
2297 [2018-12-19 07:13:53.466169] iteration 2
2298 [2018-12-19 07:13:55.733305] iteration 3
2299 [2018-12-19 07:13:58.005302] iteration 4
2300 [2018-12-19 07:14:00.245184] training MLP [5, 4, 4] withn
    n=0.01
2301 [2018-12-19 07:14:00.245184] iteration 0
2302 [2018-12-19 07:14:02.515203] iteration 1
2303 [2018-12-19 07:14:04.854978] iteration 2
2304 [2018-12-19 07:14:07.200171] iteration 3
2305 [2018-12-19 07:14:09.530576] iteration 4
2306 [2018-12-19 07:14:11.841640] training MLP [5, 4, 4] withn
    n=0.003
2307 [2018-12-19 07:14:11.841640] iteration 0
2308 [2018-12-19 07:14:14.202394] iteration 1
2309 [2018-12-19 07:14:16.485269] iteration 2
2310 [2018-12-19 07:14:18.729994] iteration 3
2311 [2018-12-19 07:14:21.095576] iteration 4
2312 ##### Seeds Experiment - Layers [5, 4, 4]
2313
2314 Best n:
2315 0.3
2316 Confusion Matrix:
2317 [[13  0  1]
2318 [ 1 13  0]
2319 [ 1  0 13]]
2320 Precision:
2321 0.9285714285714286
2322 [2018-12-19 07:14:23.452499] training MLP [5, 4, 5] withn
    n=0.3
2323 [2018-12-19 07:14:23.452499] iteration 0
2324 [2018-12-19 07:14:25.763582] iteration 1
2325 [2018-12-19 07:14:28.209028] iteration 2
2326 [2018-12-19 07:14:30.974812] iteration 3
2327 [2018-12-19 07:14:33.398780] iteration 4
2328 [2018-12-19 07:14:35.802256] training MLP [5, 4, 5] withn
    n=0.1
2329 [2018-12-19 07:14:35.802256] iteration 0
2330 [2018-12-19 07:14:38.521451] iteration 1
2331 [2018-12-19 07:14:41.069070] iteration 2
2332 [2018-12-19 07:14:43.737872] iteration 3
2333 [2018-12-19 07:14:46.412032] iteration 4
2334 [2018-12-19 07:14:48.897037] training MLP [5, 4, 5] withn
```

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```
2334 n=0.03
2335 [2018-12-19 07:14:48.897037] iteration 0
2336 [2018-12-19 07:14:51.540005] iteration 1
2337 [2018-12-19 07:14:53.989454] iteration 2
2338 [2018-12-19 07:14:56.536135] iteration 3
2339 [2018-12-19 07:14:59.021062] iteration 4
2340 [2018-12-19 07:15:01.459411] training MLP [5, 4, 5] withn
    n=0.01
2341 [2018-12-19 07:15:01.459411] iteration 0
2342 [2018-12-19 07:15:03.881287] iteration 1
2343 [2018-12-19 07:15:06.303177] iteration 2
2344 [2018-12-19 07:15:08.771136] iteration 3
2345 [2018-12-19 07:15:11.256254] iteration 4
2346 [2018-12-19 07:15:13.756476] training MLP [5, 4, 5] withn
    n=0.003
2347 [2018-12-19 07:15:13.756476] iteration 0
2348 [2018-12-19 07:15:16.225529] iteration 1
2349 [2018-12-19 07:15:18.724014] iteration 2
2350 [2018-12-19 07:15:21.176962] iteration 3
2351 [2018-12-19 07:15:23.584314] iteration 4
2352 ##### Seeds Experiment - Layers [5, 4, 5]
2353
2354 Best n:
2355 0.3
2356 Confusion Matrix:
2357 [[13  0  1]
2358 [ 1 13  0]
2359 [ 1  0 13]]
2360 Precision:
2361 0.9285714285714286
2362 [2018-12-19 07:15:26.177083] training MLP [5, 4, 6] withn
    n=0.3
2363 [2018-12-19 07:15:26.177083] iteration 0
2364 [2018-12-19 07:15:28.661430] iteration 1
2365 [2018-12-19 07:15:31.130503] iteration 2
2366 [2018-12-19 07:15:33.459896] iteration 3
2367 [2018-12-19 07:15:35.844119] iteration 4
2368 [2018-12-19 07:15:38.090044] training MLP [5, 4, 6] withn
    n=0.1
2369 [2018-12-19 07:15:38.090044] iteration 0
2370 [2018-12-19 07:15:40.373687] iteration 1
2371 [2018-12-19 07:15:42.655537] iteration 2
2372 [2018-12-19 07:15:44.880844] iteration 3
2373 [2018-12-19 07:15:47.230707] iteration 4
2374 [2018-12-19 07:15:50.005708] training MLP [5, 4, 6] withn
```

## File - seeds

```
2374 n=0.03
2375 [2018-12-19 07:15:50.005708] iteration 0
2376 [2018-12-19 07:15:52.327757] iteration 1
2377 [2018-12-19 07:15:54.608867] iteration 2
2378 [2018-12-19 07:15:57.005078] iteration 3
2379 [2018-12-19 07:15:59.321800] iteration 4
2380 [2018-12-19 07:16:01.756407] training MLP [5, 4, 6] withn
    n=0.01
2381 [2018-12-19 07:16:01.757407] iteration 0
2382 [2018-12-19 07:16:04.423383] iteration 1
2383 [2018-12-19 07:16:06.765311] iteration 2
2384 [2018-12-19 07:16:09.049071] iteration 3
2385 [2018-12-19 07:16:11.424663] iteration 4
2386 [2018-12-19 07:16:13.878199] training MLP [5, 4, 6] withn
    n=0.003
2387 [2018-12-19 07:16:13.878199] iteration 0
2388 [2018-12-19 07:16:16.194835] iteration 1
2389 [2018-12-19 07:16:18.580956] iteration 2
2390 [2018-12-19 07:16:20.885113] iteration 3
2391 [2018-12-19 07:16:23.201750] iteration 4
2392 ##### Seeds Experiment - Layers [5, 4, 6]
2393
2394 Best n:
2395 0.3
2396 Confusion Matrix:
2397 [[13  1  0]
2398 [ 0 14  0]
2399 [ 1  0 13]]
2400 Precision:
2401 0.9523809523809523
2402 [2018-12-19 07:16:25.579768] training MLP [5, 5, 3] withn
    n=0.3
2403 [2018-12-19 07:16:25.579768] iteration 0
2404 [2018-12-19 07:16:27.943606] iteration 1
2405 [2018-12-19 07:16:30.723731] iteration 2
2406 [2018-12-19 07:16:33.303416] iteration 3
2407 [2018-12-19 07:16:35.787581] iteration 4
2408 [2018-12-19 07:16:38.271646] training MLP [5, 5, 3] withn
    n=0.1
2409 [2018-12-19 07:16:38.271646] iteration 0
2410 [2018-12-19 07:16:40.607951] iteration 1
2411 [2018-12-19 07:16:42.895521] iteration 2
2412 [2018-12-19 07:16:45.171677] iteration 3
2413 [2018-12-19 07:16:47.498873] iteration 4
2414 [2018-12-19 07:16:49.779307] training MLP [5, 5, 3] withn
```

## File - seeds

```
2414 n=0.03
2415 [2018-12-19 07:16:49.779307] iteration 0
2416 [2018-12-19 07:16:52.092981] iteration 1
2417 [2018-12-19 07:16:54.301174] iteration 2
2418 [2018-12-19 07:16:56.521962] iteration 3
2419 [2018-12-19 07:16:58.818381] iteration 4
2420 [2018-12-19 07:17:01.263110] training MLP [5, 5, 3] withn
    n=0.01
2421 [2018-12-19 07:17:01.263110] iteration 0
2422 [2018-12-19 07:17:03.689184] iteration 1
2423 [2018-12-19 07:17:05.979363] iteration 2
2424 [2018-12-19 07:17:08.249911] iteration 3
2425 [2018-12-19 07:17:10.507013] iteration 4
2426 [2018-12-19 07:17:12.850280] training MLP [5, 5, 3] withn
    n=0.003
2427 [2018-12-19 07:17:12.850280] iteration 0
2428 [2018-12-19 07:17:15.116169] iteration 1
2429 [2018-12-19 07:17:17.438720] iteration 2
2430 [2018-12-19 07:17:19.772198] iteration 3
2431 [2018-12-19 07:17:22.121316] iteration 4
2432 ##### Seeds Experiment - Layers [5, 5, 3]
2433
2434 Best n:
2435 0.3
2436 Confusion Matrix:
2437 [[ 4  2  8]
2438 [ 0 14  0]
2439 [ 0  0 14]]
2440 Precision:
2441 0.7619047619047619
2442 [2018-12-19 07:17:24.519899] training MLP [5, 5, 4] withn
    n=0.3
2443 [2018-12-19 07:17:24.519899] iteration 0
2444 [2018-12-19 07:17:26.855599] iteration 1
2445 [2018-12-19 07:17:29.179633] iteration 2
2446 [2018-12-19 07:17:31.457792] iteration 3
2447 [2018-12-19 07:17:33.698922] iteration 4
2448 [2018-12-19 07:17:36.035642] training MLP [5, 5, 4] withn
    n=0.1
2449 [2018-12-19 07:17:36.035642] iteration 0
2450 [2018-12-19 07:17:38.402356] iteration 1
2451 [2018-12-19 07:17:40.744628] iteration 2
2452 [2018-12-19 07:17:43.033580] iteration 3
2453 [2018-12-19 07:17:45.375743] iteration 4
2454 [2018-12-19 07:17:47.660486] training MLP [5, 5, 4] withn
```

File - seeds

```
2454 n=0.03
2455 [2018-12-19 07:17:47.660486] iteration 0
2456 [2018-12-19 07:17:50.004759] iteration 1
2457 [2018-12-19 07:17:52.396937] iteration 2
2458 [2018-12-19 07:17:54.657853] iteration 3
2459 [2018-12-19 07:17:56.958280] iteration 4
2460 [2018-12-19 07:17:59.302073] training MLP [5, 5, 4] withn
    n=0.01
2461 [2018-12-19 07:17:59.302073] iteration 0
2462 [2018-12-19 07:18:01.699236] iteration 1
2463 [2018-12-19 07:18:03.980432] iteration 2
2464 [2018-12-19 07:18:06.319287] iteration 3
2465 [2018-12-19 07:18:08.557336] iteration 4
2466 [2018-12-19 07:18:10.836670] training MLP [5, 5, 4] withn
    n=0.003
2467 [2018-12-19 07:18:10.836670] iteration 0
2468 [2018-12-19 07:18:13.093568] iteration 1
2469 [2018-12-19 07:18:15.417698] iteration 2
2470 [2018-12-19 07:18:17.748162] iteration 3
2471 [2018-12-19 07:18:20.438047] iteration 4
2472 ##### Seeds Experiment - Layers [5, 5, 4]
2473
2474 Best n:
2475 0.3
2476 Confusion Matrix:
2477 [[13  0  1]
2478 [ 2 12  0]
2479 [ 2  0 12]]
2480 Precision:
2481 0.8809523809523809
2482 [2018-12-19 07:18:22.891202] training MLP [5, 5, 5] withn
    n=0.3
2483 [2018-12-19 07:18:22.891202] iteration 0
2484 [2018-12-19 07:18:25.444754] iteration 1
2485 [2018-12-19 07:18:28.037346] iteration 2
2486 [2018-12-19 07:18:30.411556] iteration 3
2487 [2018-12-19 07:18:32.943901] iteration 4
2488 [2018-12-19 07:18:35.462099] training MLP [5, 5, 5] withn
    n=0.1
2489 [2018-12-19 07:18:35.462099] iteration 0
2490 [2018-12-19 07:18:37.802045] iteration 1
2491 [2018-12-19 07:18:40.101172] iteration 2
2492 [2018-12-19 07:18:42.415478] iteration 3
2493 [2018-12-19 07:18:44.714744] iteration 4
2494 [2018-12-19 07:18:47.106287] training MLP [5, 5, 5] withn
```

## File - seeds

```
2494 n=0.03
2495 [2018-12-19 07:18:47.106287] iteration 0
2496 [2018-12-19 07:18:49.407127] iteration 1
2497 [2018-12-19 07:18:52.098553] iteration 2
2498 [2018-12-19 07:18:54.418554] iteration 3
2499 [2018-12-19 07:18:56.787342] iteration 4
2500 [2018-12-19 07:18:59.163863] training MLP [5, 5, 5] withn
    n=0.01
2501 [2018-12-19 07:18:59.163863] iteration 0
2502 [2018-12-19 07:19:01.466349] iteration 1
2503 [2018-12-19 07:19:03.741318] iteration 2
2504 [2018-12-19 07:19:06.106445] iteration 3
2505 [2018-12-19 07:19:08.384497] iteration 4
2506 [2018-12-19 07:19:10.628149] training MLP [5, 5, 5] withn
    n=0.003
2507 [2018-12-19 07:19:10.628149] iteration 0
2508 [2018-12-19 07:19:12.992378] iteration 1
2509 [2018-12-19 07:19:15.491046] iteration 2
2510 [2018-12-19 07:19:17.754254] iteration 3
2511 [2018-12-19 07:19:20.031949] iteration 4
2512 ##### Seeds Experiment - Layers [5, 5, 5]
2513
2514 Best n:
2515 0.3
2516 Confusion Matrix:
2517 [[13  0  1]
2518 [ 2 12  0]
2519 [ 1  0 13]]
2520 Precision:
2521 0.9047619047619048
2522 [2018-12-19 07:19:22.407387] training MLP [5, 5, 6] withn
    n=0.3
2523 [2018-12-19 07:19:22.407387] iteration 0
2524 [2018-12-19 07:19:24.660272] iteration 1
2525 [2018-12-19 07:19:27.084766] iteration 2
2526 [2018-12-19 07:19:29.532841] iteration 3
2527 [2018-12-19 07:19:31.866547] iteration 4
2528 [2018-12-19 07:19:34.315530] training MLP [5, 5, 6] withn
    n=0.1
2529 [2018-12-19 07:19:34.315530] iteration 0
2530 [2018-12-19 07:19:36.771473] iteration 1
2531 [2018-12-19 07:19:39.118182] iteration 2
2532 [2018-12-19 07:19:41.514097] iteration 3
2533 [2018-12-19 07:19:43.784550] iteration 4
2534 [2018-12-19 07:19:46.078435] training MLP [5, 5, 6] withn
```

## File - seeds

```
2534 n=0.03
2535 [2018-12-19 07:19:46.078435] iteration 0
2536 [2018-12-19 07:19:48.397498] iteration 1
2537 [2018-12-19 07:19:50.703959] iteration 2
2538 [2018-12-19 07:19:52.974575] iteration 3
2539 [2018-12-19 07:19:55.272398] iteration 4
2540 [2018-12-19 07:19:57.481670] training MLP [5, 5, 6] withn
    n=0.01
2541 [2018-12-19 07:19:57.481670] iteration 0
2542 [2018-12-19 07:19:59.799111] iteration 1
2543 [2018-12-19 07:20:02.522532] iteration 2
2544 [2018-12-19 07:20:04.912378] iteration 3
2545 [2018-12-19 07:20:07.253245] iteration 4
2546 [2018-12-19 07:20:09.489712] training MLP [5, 5, 6] withn
    n=0.003
2547 [2018-12-19 07:20:09.489712] iteration 0
2548 [2018-12-19 07:20:11.837037] iteration 1
2549 [2018-12-19 07:20:14.222023] iteration 2
2550 [2018-12-19 07:20:16.577670] iteration 3
2551 [2018-12-19 07:20:18.990843] iteration 4
2552 ##### Seeds Experiment - Layers [5, 5, 6]
2553
2554 Best n:
2555 0.3
2556 Confusion Matrix:
2557 [[13  0  1]
2558 [ 1 13  0]
2559 [ 1  0 13]]
2560 Precision:
2561 0.9285714285714286
2562 [2018-12-19 07:20:21.390727] training MLP [5, 6, 3] withn
    n=0.3
2563 [2018-12-19 07:20:21.390727] iteration 0
2564 [2018-12-19 07:20:23.744540] iteration 1
2565 [2018-12-19 07:20:26.123140] iteration 2
2566 [2018-12-19 07:20:28.411447] iteration 3
2567 [2018-12-19 07:20:30.753232] iteration 4
2568 [2018-12-19 07:20:33.075122] training MLP [5, 6, 3] withn
    n=0.1
2569 [2018-12-19 07:20:33.075122] iteration 0
2570 [2018-12-19 07:20:35.457771] iteration 1
2571 [2018-12-19 07:20:38.232687] iteration 2
2572 [2018-12-19 07:20:40.494566] iteration 3
2573 [2018-12-19 07:20:42.787423] iteration 4
2574 [2018-12-19 07:20:45.255213] training MLP [5, 6, 3] withn
```

## File - seeds

```
2574 n=0.03
2575 [2018-12-19 07:20:45.255213] iteration 0
2576 [2018-12-19 07:20:47.706110] iteration 1
2577 [2018-12-19 07:20:50.178395] iteration 2
2578 [2018-12-19 07:20:52.724064] iteration 3
2579 [2018-12-19 07:20:55.115126] iteration 4
2580 [2018-12-19 07:20:57.444048] training MLP [5, 6, 3] withn
    n=0.01
2581 [2018-12-19 07:20:57.444048] iteration 0
2582 [2018-12-19 07:20:59.803499] iteration 1
2583 [2018-12-19 07:21:02.257693] iteration 2
2584 [2018-12-19 07:21:04.709332] iteration 3
2585 [2018-12-19 07:21:07.252526] iteration 4
2586 [2018-12-19 07:21:09.521806] training MLP [5, 6, 3] withn
    n=0.003
2587 [2018-12-19 07:21:09.521806] iteration 0
2588 [2018-12-19 07:21:11.879831] iteration 1
2589 [2018-12-19 07:21:14.160960] iteration 2
2590 [2018-12-19 07:21:16.544973] iteration 3
2591 [2018-12-19 07:21:18.872632] iteration 4
2592 ##### Seeds Experiment - Layers [5, 6, 3]
2593
2594 Best n:
2595 0.3
2596 Confusion Matrix:
2597 [[ 5  7  2]
2598 [ 0 14  0]
2599 [ 0  0 14]]
2600 Precision:
2601 0.7857142857142857
2602 [2018-12-19 07:21:21.342756] training MLP [5, 6, 4] withn
    n=0.3
2603 [2018-12-19 07:21:21.342756] iteration 0
2604 [2018-12-19 07:21:23.797923] iteration 1
2605 [2018-12-19 07:21:26.144465] iteration 2
2606 [2018-12-19 07:21:28.479831] iteration 3
2607 [2018-12-19 07:21:30.787986] iteration 4
2608 [2018-12-19 07:21:33.155791] training MLP [5, 6, 4] withn
    n=0.1
2609 [2018-12-19 07:21:33.155791] iteration 0
2610 [2018-12-19 07:21:35.412183] iteration 1
2611 [2018-12-19 07:21:37.709984] iteration 2
2612 [2018-12-19 07:21:39.966922] iteration 3
2613 [2018-12-19 07:21:42.421359] iteration 4
2614 [2018-12-19 07:21:44.710432] training MLP [5, 6, 4] withn
```

## File - seeds

```
2614 n=0.03
2615 [2018-12-19 07:21:44.710432] iteration 0
2616 [2018-12-19 07:21:47.121549] iteration 1
2617 [2018-12-19 07:21:49.577420] iteration 2
2618 [2018-12-19 07:21:51.978687] iteration 3
2619 [2018-12-19 07:21:54.285514] iteration 4
2620 [2018-12-19 07:21:56.602573] training MLP [5, 6, 4] withn
    n=0.01
2621 [2018-12-19 07:21:56.602573] iteration 0
2622 [2018-12-19 07:21:58.964989] iteration 1
2623 [2018-12-19 07:22:01.346745] iteration 2
2624 [2018-12-19 07:22:03.753949] iteration 3
2625 [2018-12-19 07:22:06.043236] iteration 4
2626 [2018-12-19 07:22:08.375631] training MLP [5, 6, 4] withn
    n=0.003
2627 [2018-12-19 07:22:08.375631] iteration 0
2628 [2018-12-19 07:22:10.670392] iteration 1
2629 [2018-12-19 07:22:13.027859] iteration 2
2630 [2018-12-19 07:22:15.423956] iteration 3
2631 [2018-12-19 07:22:17.763280] iteration 4
2632 ##### Seeds Experiment - Layers [5, 6, 4]
2633
2634 Best n:
2635 0.3
2636 Confusion Matrix:
2637 [[12 1 1]
2638 [ 0 14 0]
2639 [ 2 0 12]]
2640 Precision:
2641 0.9047619047619048
2642 [2018-12-19 07:22:20.175730] training MLP [5, 6, 5] withn
    n=0.3
2643 [2018-12-19 07:22:20.175730] iteration 0
2644 [2018-12-19 07:22:22.527097] iteration 1
2645 [2018-12-19 07:22:24.927262] iteration 2
2646 [2018-12-19 07:22:27.627494] iteration 3
2647 [2018-12-19 07:22:30.084132] iteration 4
2648 [2018-12-19 07:22:32.584436] training MLP [5, 6, 5] withn
    n=0.1
2649 [2018-12-19 07:22:32.584436] iteration 0
2650 [2018-12-19 07:22:35.053433] iteration 1
2651 [2018-12-19 07:22:37.536564] iteration 2
2652 [2018-12-19 07:22:40.021623] iteration 3
2653 [2018-12-19 07:22:42.506516] iteration 4
2654 [2018-12-19 07:22:44.974066] training MLP [5, 6, 5] withn
```

## File - seeds

```
2654 n=0.03
2655 [2018-12-19 07:22:44.974066] iteration 0
2656 [2018-12-19 07:22:47.426897] iteration 1
2657 [2018-12-19 07:22:49.852525] iteration 2
2658 [2018-12-19 07:22:52.380243] iteration 3
2659 [2018-12-19 07:22:54.775069] iteration 4
2660 [2018-12-19 07:22:57.193766] training MLP [5, 6, 5] withn
    n=0.01
2661 [2018-12-19 07:22:57.193766] iteration 0
2662 [2018-12-19 07:22:59.649936] iteration 1
2663 [2018-12-19 07:23:02.178466] iteration 2
2664 [2018-12-19 07:23:04.615015] iteration 3
2665 [2018-12-19 07:23:07.114928] iteration 4
2666 [2018-12-19 07:23:09.475573] training MLP [5, 6, 5] withn
    n=0.003
2667 [2018-12-19 07:23:09.475573] iteration 0
2668 [2018-12-19 07:23:11.944187] iteration 1
2669 [2018-12-19 07:23:14.333291] iteration 2
2670 [2018-12-19 07:23:16.787172] iteration 3
2671 [2018-12-19 07:23:19.239657] iteration 4
2672 ##### Seeds Experiment - Layers [5, 6, 5]
2673
2674 Best n:
2675 0.3
2676 Confusion Matrix:
2677 [[13 0 1]
2678 [ 1 13 0]
2679 [ 1 0 13]]
2680 Precision:
2681 0.9285714285714286
2682 [2018-12-19 07:23:21.895655] training MLP [5, 6, 6] withn
    n=0.3
2683 [2018-12-19 07:23:21.895655] iteration 0
2684 [2018-12-19 07:23:24.303524] iteration 1
2685 [2018-12-19 07:23:26.725223] iteration 2
2686 [2018-12-19 07:23:29.193279] iteration 3
2687 [2018-12-19 07:23:31.645720] iteration 4
2688 [2018-12-19 07:23:34.131609] training MLP [5, 6, 6] withn
    n=0.1
2689 [2018-12-19 07:23:34.131609] iteration 0
2690 [2018-12-19 07:23:36.599789] iteration 1
2691 [2018-12-19 07:23:39.115433] iteration 2
2692 [2018-12-19 07:23:41.522485] iteration 3
2693 [2018-12-19 07:23:43.927288] iteration 4
2694 [2018-12-19 07:23:46.395849] training MLP [5, 6, 6] withn
```

## File - seeds

```
2694 n=0.03
2695 [2018-12-19 07:23:46.395849] iteration 0
2696 [2018-12-19 07:23:48.848506] iteration 1
2697 [2018-12-19 07:23:51.155760] iteration 2
2698 [2018-12-19 07:23:53.402460] iteration 3
2699 [2018-12-19 07:23:55.651984] iteration 4
2700 [2018-12-19 07:23:57.998038] training MLP [5, 6, 6] withn
    n=0.01
2701 [2018-12-19 07:23:57.998038] iteration 0
2702 [2018-12-19 07:24:00.318213] iteration 1
2703 [2018-12-19 07:24:02.644047] iteration 2
2704 [2018-12-19 07:24:04.894300] iteration 3
2705 [2018-12-19 07:24:07.260149] iteration 4
2706 [2018-12-19 07:24:09.595193] training MLP [5, 6, 6] withn
    n=0.003
2707 [2018-12-19 07:24:09.595193] iteration 0
2708 [2018-12-19 07:24:11.923004] iteration 1
2709 [2018-12-19 07:24:14.330028] iteration 2
2710 [2018-12-19 07:24:16.580727] iteration 3
2711 [2018-12-19 07:24:18.871433] iteration 4
2712 ##### Seeds Experiment - Layers [5, 6, 6]
2713
2714 Best n:
2715 0.3
2716 Confusion Matrix:
2717 [[13  0  1]
2718 [ 1 13  0]
2719 [ 1  0 13]]
2720 Precision:
2721 0.9285714285714286
2722 [2018-12-19 07:24:21.369637] training MLP [6, 3, 3] withn
    n=0.3
2723 [2018-12-19 07:24:21.369637] iteration 0
2724 [2018-12-19 07:24:23.662947] iteration 1
2725 [2018-12-19 07:24:25.912316] iteration 2
2726 [2018-12-19 07:24:28.140303] iteration 3
2727 [2018-12-19 07:24:30.519738] iteration 4
2728 [2018-12-19 07:24:32.843367] training MLP [6, 3, 3] withn
    n=0.1
2729 [2018-12-19 07:24:32.843367] iteration 0
2730 [2018-12-19 07:24:35.174368] iteration 1
2731 [2018-12-19 07:24:37.627966] iteration 2
2732 [2018-12-19 07:24:39.827874] iteration 3
2733 [2018-12-19 07:24:42.259536] iteration 4
2734 [2018-12-19 07:24:45.247170] training MLP [6, 3, 3] withn
```

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```
2734 n=0.03
2735 [2018-12-19 07:24:45.247170] iteration 0
2736 [2018-12-19 07:24:47.715761] iteration 1
2737 [2018-12-19 07:24:50.097287] iteration 2
2738 [2018-12-19 07:24:52.388819] iteration 3
2739 [2018-12-19 07:24:54.830892] iteration 4
2740 [2018-12-19 07:24:57.270924] training MLP [6, 3, 3] withn
    n=0.01
2741 [2018-12-19 07:24:57.270924] iteration 0
2742 [2018-12-19 07:24:59.726146] iteration 1
2743 [2018-12-19 07:25:02.114621] iteration 2
2744 [2018-12-19 07:25:04.598779] iteration 3
2745 [2018-12-19 07:25:07.099231] iteration 4
2746 [2018-12-19 07:25:09.633785] training MLP [6, 3, 3] withn
    n=0.003
2747 [2018-12-19 07:25:09.633785] iteration 0
2748 [2018-12-19 07:25:12.006906] iteration 1
2749 [2018-12-19 07:25:14.442628] iteration 2
2750 [2018-12-19 07:25:16.864399] iteration 3
2751 [2018-12-19 07:25:19.381533] iteration 4
2752 ##### Seeds Experiment - Layers [6, 3, 3]
2753
2754 Best n:
2755 0.3
2756 Confusion Matrix:
2757 [[12  1  1]
2758 [ 0 14  0]
2759 [ 2  0 12]]
2760 Precision:
2761 0.9047619047619048
2762 [2018-12-19 07:25:22.064005] training MLP [6, 3, 4] withn
    n=0.3
2763 [2018-12-19 07:25:22.064005] iteration 0
2764 [2018-12-19 07:25:24.356342] iteration 1
2765 [2018-12-19 07:25:27.102517] iteration 2
2766 [2018-12-19 07:25:29.353857] iteration 3
2767 [2018-12-19 07:25:31.603779] iteration 4
2768 [2018-12-19 07:25:33.821929] training MLP [6, 3, 4] withn
    n=0.1
2769 [2018-12-19 07:25:33.821929] iteration 0
2770 [2018-12-19 07:25:36.115949] iteration 1
2771 [2018-12-19 07:25:38.470394] iteration 2
2772 [2018-12-19 07:25:40.693579] iteration 3
2773 [2018-12-19 07:25:43.005810] iteration 4
2774 [2018-12-19 07:25:45.266294] training MLP [6, 3, 4] withn
```

## File - seeds

```
2774 n=0.03
2775 [2018-12-19 07:25:45.266294] iteration 0
2776 [2018-12-19 07:25:47.530192] iteration 1
2777 [2018-12-19 07:25:50.006781] iteration 2
2778 [2018-12-19 07:25:52.215186] iteration 3
2779 [2018-12-19 07:25:54.793426] iteration 4
2780 [2018-12-19 07:25:57.056428] training MLP [6, 3, 4] withn
    n=0.01
2781 [2018-12-19 07:25:57.056428] iteration 0
2782 [2018-12-19 07:25:59.457434] iteration 1
2783 [2018-12-19 07:26:01.927557] iteration 2
2784 [2018-12-19 07:26:04.193834] iteration 3
2785 [2018-12-19 07:26:07.039126] iteration 4
2786 [2018-12-19 07:26:09.616783] training MLP [6, 3, 4] withn
    n=0.003
2787 [2018-12-19 07:26:09.616783] iteration 0
2788 [2018-12-19 07:26:11.960961] iteration 1
2789 [2018-12-19 07:26:14.490877] iteration 2
2790 [2018-12-19 07:26:16.737729] iteration 3
2791 [2018-12-19 07:26:18.952772] iteration 4
2792 ##### Seeds Experiment - Layers [6, 3, 4]
2793
2794 Best n:
2795 0.3
2796 Confusion Matrix:
2797 [[12  1  1]
2798 [ 0 14  0]
2799 [ 2  0 12]]
2800 Precision:
2801 0.9047619047619048
2802 [2018-12-19 07:26:21.262406] training MLP [6, 3, 5] withn
    n=0.3
2803 [2018-12-19 07:26:21.262406] iteration 0
2804 [2018-12-19 07:26:23.601440] iteration 1
2805 [2018-12-19 07:26:25.932525] iteration 2
2806 [2018-12-19 07:26:28.258645] iteration 3
2807 [2018-12-19 07:26:30.612717] iteration 4
2808 [2018-12-19 07:26:33.248505] training MLP [6, 3, 5] withn
    n=0.1
2809 [2018-12-19 07:26:33.248505] iteration 0
2810 [2018-12-19 07:26:35.666210] iteration 1
2811 [2018-12-19 07:26:37.975449] iteration 2
2812 [2018-12-19 07:26:40.240150] iteration 3
2813 [2018-12-19 07:26:42.584455] iteration 4
2814 [2018-12-19 07:26:44.880115] training MLP [6, 3, 5] withn
```

## File - seeds

```
2814 n=0.03
2815 [2018-12-19 07:26:44.880115] iteration 0
2816 [2018-12-19 07:26:47.162492] iteration 1
2817 [2018-12-19 07:26:49.390016] iteration 2
2818 [2018-12-19 07:26:51.628430] iteration 3
2819 [2018-12-19 07:26:53.861694] iteration 4
2820 [2018-12-19 07:26:56.117019] training MLP [6, 3, 5] withn
    n=0.01
2821 [2018-12-19 07:26:56.117019] iteration 0
2822 [2018-12-19 07:26:58.388060] iteration 1
2823 [2018-12-19 07:27:00.670419] iteration 2
2824 [2018-12-19 07:27:03.074402] iteration 3
2825 [2018-12-19 07:27:05.309809] iteration 4
2826 [2018-12-19 07:27:07.627099] training MLP [6, 3, 5] withn
    n=0.003
2827 [2018-12-19 07:27:07.627099] iteration 0
2828 [2018-12-19 07:27:10.046734] iteration 1
2829 [2018-12-19 07:27:12.353640] iteration 2
2830 [2018-12-19 07:27:14.568595] iteration 3
2831 [2018-12-19 07:27:16.806963] iteration 4
2832 ##### Seeds Experiment - Layers [6, 3, 5]
2833
2834 Best n:
2835 0.3
2836 Confusion Matrix:
2837 [[13  0  1]
2838 [ 1 13  0]
2839 [ 1  0 13]]
2840 Precision:
2841 0.9285714285714286
2842 [2018-12-19 07:27:19.180890] training MLP [6, 3, 6] withn
    n=0.3
2843 [2018-12-19 07:27:19.180890] iteration 0
2844 [2018-12-19 07:27:21.510177] iteration 1
2845 [2018-12-19 07:27:23.412518] iteration 2
2846 [2018-12-19 07:27:25.613151] iteration 3
2847 [2018-12-19 07:27:27.905848] iteration 4
2848 [2018-12-19 07:27:30.141515] training MLP [6, 3, 6] withn
    n=0.1
2849 [2018-12-19 07:27:30.141515] iteration 0
2850 [2018-12-19 07:27:32.398900] iteration 1
2851 [2018-12-19 07:27:34.629596] iteration 2
2852 [2018-12-19 07:27:36.902725] iteration 3
2853 [2018-12-19 07:27:39.117834] iteration 4
2854 [2018-12-19 07:27:41.477006] training MLP [6, 3, 6] withn
```

## File - seeds

```
2854 n=0.03
2855 [2018-12-19 07:27:41.477006] iteration 0
2856 [2018-12-19 07:27:43.700318] iteration 1
2857 [2018-12-19 07:27:45.958994] iteration 2
2858 [2018-12-19 07:27:48.225181] iteration 3
2859 [2018-12-19 07:27:50.509489] iteration 4
2860 [2018-12-19 07:27:52.779008] training MLP [6, 3, 6] withn
    n=0.01
2861 [2018-12-19 07:27:52.779008] iteration 0
2862 [2018-12-19 07:27:55.006141] iteration 1
2863 [2018-12-19 07:27:57.317913] iteration 2
2864 [2018-12-19 07:27:59.558456] iteration 3
2865 [2018-12-19 07:28:01.897069] iteration 4
2866 [2018-12-19 07:28:04.224317] training MLP [6, 3, 6] withn
    n=0.003
2867 [2018-12-19 07:28:04.224317] iteration 0
2868 [2018-12-19 07:28:06.521496] iteration 1
2869 [2018-12-19 07:28:08.769094] iteration 2
2870 [2018-12-19 07:28:11.053419] iteration 3
2871 [2018-12-19 07:28:13.272246] iteration 4
2872 ##### Seeds Experiment - Layers [6, 3, 6]
2873
2874 Best n:
2875 0.3
2876 Confusion Matrix:
2877 [[13  0  1]
2878 [ 1 13  0]
2879 [ 1  0 13]]
2880 Precision:
2881 0.9285714285714286
2882 [2018-12-19 07:28:15.608797] training MLP [6, 4, 3] withn
    n=0.3
2883 [2018-12-19 07:28:15.608797] iteration 0
2884 [2018-12-19 07:28:17.911156] iteration 1
2885 [2018-12-19 07:28:20.209758] iteration 2
2886 [2018-12-19 07:28:22.487230] iteration 3
2887 [2018-12-19 07:28:24.774150] iteration 4
2888 [2018-12-19 07:28:27.020882] training MLP [6, 4, 3] withn
    n=0.1
2889 [2018-12-19 07:28:27.020882] iteration 0
2890 [2018-12-19 07:28:29.227231] iteration 1
2891 [2018-12-19 07:28:31.535551] iteration 2
2892 [2018-12-19 07:28:33.879507] iteration 3
2893 [2018-12-19 07:28:36.130501] iteration 4
2894 [2018-12-19 07:28:38.430605] training MLP [6, 4, 3] withn
```

File - seeds

```
2894 n=0.03
2895 [2018-12-19 07:28:38.430605] iteration 0
2896 [2018-12-19 07:28:40.692626] iteration 1
2897 [2018-12-19 07:28:42.912039] iteration 2
2898 [2018-12-19 07:28:45.178032] iteration 3
2899 [2018-12-19 07:28:47.477482] iteration 4
2900 [2018-12-19 07:28:49.826492] training MLP [6, 4, 3] withn
    n=0.01
2901 [2018-12-19 07:28:49.826492] iteration 0
2902 [2018-12-19 07:28:52.099505] iteration 1
2903 [2018-12-19 07:28:54.435079] iteration 2
2904 [2018-12-19 07:28:56.784235] iteration 3
2905 [2018-12-19 07:28:59.021899] iteration 4
2906 [2018-12-19 07:29:01.256254] training MLP [6, 4, 3] withn
    n=0.003
2907 [2018-12-19 07:29:01.256254] iteration 0
2908 [2018-12-19 07:29:03.513862] iteration 1
2909 [2018-12-19 07:29:05.712510] iteration 2
2910 [2018-12-19 07:29:07.943955] iteration 3
2911 [2018-12-19 07:29:10.178136] iteration 4
2912 ##### Seeds Experiment - Layers [6, 4, 3]
2913
2914 Best n:
2915 0.3
2916 Confusion Matrix:
2917 [[ 8  6  0]
2918 [ 0 14  0]
2919 [ 2  0 12]]
2920 Precision:
2921 0.8095238095238095
2922 [2018-12-19 07:29:12.468018] training MLP [6, 4, 4] withn
    n=0.3
2923 [2018-12-19 07:29:12.468018] iteration 0
2924 [2018-12-19 07:29:14.706884] iteration 1
2925 [2018-12-19 07:29:17.037717] iteration 2
2926 [2018-12-19 07:29:19.274226] iteration 3
2927 [2018-12-19 07:29:21.703629] iteration 4
2928 [2018-12-19 07:29:23.958905] training MLP [6, 4, 4] withn
    n=0.1
2929 [2018-12-19 07:29:23.958905] iteration 0
2930 [2018-12-19 07:29:26.178664] iteration 1
2931 [2018-12-19 07:29:28.457079] iteration 2
2932 [2018-12-19 07:29:30.735584] iteration 3
2933 [2018-12-19 07:29:33.098861] iteration 4
2934 [2018-12-19 07:29:35.398983] training MLP [6, 4, 4] withn
```

## File - seeds

```
2934 n=0.03
2935 [2018-12-19 07:29:35.398983] iteration 0
2936 [2018-12-19 07:29:37.699981] iteration 1
2937 [2018-12-19 07:29:40.036573] iteration 2
2938 [2018-12-19 07:29:42.368228] iteration 3
2939 [2018-12-19 07:29:44.633819] iteration 4
2940 [2018-12-19 07:29:46.880289] training MLP [6, 4, 4] withn
    n=0.01
2941 [2018-12-19 07:29:46.880289] iteration 0
2942 [2018-12-19 07:29:49.099501] iteration 1
2943 [2018-12-19 07:29:51.319039] iteration 2
2944 [2018-12-19 07:29:53.540586] iteration 3
2945 [2018-12-19 07:29:55.734134] iteration 4
2946 [2018-12-19 07:29:57.959898] training MLP [6, 4, 4] withn
    n=0.003
2947 [2018-12-19 07:29:57.959898] iteration 0
2948 [2018-12-19 07:30:00.231401] iteration 1
2949 [2018-12-19 07:30:03.355277] iteration 2
2950 [2018-12-19 07:30:05.694136] iteration 3
2951 [2018-12-19 07:30:07.942924] iteration 4
2952 ##### Seeds Experiment - Layers [6, 4, 4]
2953
2954 Best n:
2955 0.3
2956 Confusion Matrix:
2957 [[ 8  0  6]
2958 [ 5  9  0]
2959 [ 0  0 14]]
2960 Precision:
2961 0.7380952380952381
2962 [2018-12-19 07:30:10.345511] training MLP [6, 4, 5] withn
    n=0.3
2963 [2018-12-19 07:30:10.345511] iteration 0
2964 [2018-12-19 07:30:12.662545] iteration 1
2965 [2018-12-19 07:30:14.897479] iteration 2
2966 [2018-12-19 07:30:17.146292] iteration 3
2967 [2018-12-19 07:30:19.371989] iteration 4
2968 [2018-12-19 07:30:21.604521] training MLP [6, 4, 5] withn
    n=0.1
2969 [2018-12-19 07:30:21.604521] iteration 0
2970 [2018-12-19 07:30:23.881117] iteration 1
2971 [2018-12-19 07:30:26.100449] iteration 2
2972 [2018-12-19 07:30:28.353734] iteration 3
2973 [2018-12-19 07:30:30.630800] iteration 4
2974 [2018-12-19 07:30:32.944292] training MLP [6, 4, 5] withn
```

## File - seeds

```
2974 n=0.03
2975 [2018-12-19 07:30:32.944292] iteration 0
2976 [2018-12-19 07:30:35.225566] iteration 1
2977 [2018-12-19 07:30:37.562896] iteration 2
2978 [2018-12-19 07:30:39.774214] iteration 3
2979 [2018-12-19 07:30:42.006862] iteration 4
2980 [2018-12-19 07:30:44.225208] training MLP [6, 4, 5] withn
    n=0.01
2981 [2018-12-19 07:30:44.225208] iteration 0
2982 [2018-12-19 07:30:46.789763] iteration 1
2983 [2018-12-19 07:30:49.255168] iteration 2
2984 [2018-12-19 07:30:51.811386] iteration 3
2985 [2018-12-19 07:30:54.318387] iteration 4
2986 [2018-12-19 07:30:56.835819] training MLP [6, 4, 5] withn
    n=0.003
2987 [2018-12-19 07:30:56.835819] iteration 0
2988 [2018-12-19 07:30:59.542728] iteration 1
2989 [2018-12-19 07:31:02.036473] iteration 2
2990 [2018-12-19 07:31:04.611721] iteration 3
2991 [2018-12-19 07:31:07.146258] iteration 4
2992 ##### Seeds Experiment - Layers [6, 4, 5]
2993
2994 Best n:
2995 0.3
2996 Confusion Matrix:
2997 [[13  0  1]
2998 [ 2 12  0]
2999 [ 1  0 13]]
3000 Precision:
3001 0.9047619047619048
3002 [2018-12-19 07:31:09.896580] training MLP [6, 4, 6] withn
    n=0.3
3003 [2018-12-19 07:31:09.896580] iteration 0
3004 [2018-12-19 07:31:12.596557] iteration 1
3005 [2018-12-19 07:31:15.084004] iteration 2
3006 [2018-12-19 07:31:17.699242] iteration 3
3007 [2018-12-19 07:31:20.334183] iteration 4
3008 [2018-12-19 07:31:22.880137] training MLP [6, 4, 6] withn
    n=0.1
3009 [2018-12-19 07:31:22.880137] iteration 0
3010 [2018-12-19 07:31:25.546096] iteration 1
3011 [2018-12-19 07:31:28.067873] iteration 2
3012 [2018-12-19 07:31:30.645573] iteration 3
3013 [2018-12-19 07:31:33.287177] iteration 4
3014 [2018-12-19 07:31:35.911867] training MLP [6, 4, 6] withn
```

## File - seeds

```
3014 n=0.03
3015 [2018-12-19 07:31:35.911867] iteration 0
3016 [2018-12-19 07:31:38.507490] iteration 1
3017 [2018-12-19 07:31:41.072477] iteration 2
3018 [2018-12-19 07:31:43.672057] iteration 3
3019 [2018-12-19 07:31:46.217195] iteration 4
3020 [2018-12-19 07:31:48.844542] training MLP [6, 4, 6] withn
    n=0.01
3021 [2018-12-19 07:31:48.844542] iteration 0
3022 [2018-12-19 07:31:51.501072] iteration 1
3023 [2018-12-19 07:31:54.097251] iteration 2
3024 [2018-12-19 07:31:56.651018] iteration 3
3025 [2018-12-19 07:31:59.161729] iteration 4
3026 [2018-12-19 07:32:01.898776] training MLP [6, 4, 6] withn
    n=0.003
3027 [2018-12-19 07:32:01.898776] iteration 0
3028 [2018-12-19 07:32:04.383255] iteration 1
3029 [2018-12-19 07:32:06.964157] iteration 2
3030 [2018-12-19 07:32:09.503891] iteration 3
3031 [2018-12-19 07:32:12.077161] iteration 4
3032 ##### Seeds Experiment - Layers [6, 4, 6]
3033
3034 Best n:
3035 0.3
3036 Confusion Matrix:
3037 [[12  1  1]
3038 [ 0 14  0]
3039 [ 0  0 14]]
3040 Precision:
3041 0.9523809523809523
3042 [2018-12-19 07:32:14.746616] training MLP [6, 5, 3] withn
    n=0.3
3043 [2018-12-19 07:32:14.746616] iteration 0
3044 [2018-12-19 07:32:17.363858] iteration 1
3045 [2018-12-19 07:32:19.902192] iteration 2
3046 [2018-12-19 07:32:22.428162] iteration 3
3047 [2018-12-19 07:32:24.943433] iteration 4
3048 [2018-12-19 07:32:27.489915] training MLP [6, 5, 3] withn
    n=0.1
3049 [2018-12-19 07:32:27.489915] iteration 0
3050 [2018-12-19 07:32:30.146147] iteration 1
3051 [2018-12-19 07:32:32.770818] iteration 2
3052 [2018-12-19 07:32:35.349133] iteration 3
3053 [2018-12-19 07:32:38.021088] iteration 4
3054 [2018-12-19 07:32:40.602039] training MLP [6, 5, 3] withn
```

## File - seeds

```
3054 n=0.03
3055 [2018-12-19 07:32:40.602039] iteration 0
3056 [2018-12-19 07:32:43.161686] iteration 1
3057 [2018-12-19 07:32:45.722919] iteration 2
3058 [2018-12-19 07:32:48.366457] iteration 3
3059 [2018-12-19 07:32:51.084140] iteration 4
3060 [2018-12-19 07:32:53.927636] training MLP [6, 5, 3] withn
    n=0.01
3061 [2018-12-19 07:32:53.927636] iteration 0
3062 [2018-12-19 07:32:56.488496] iteration 1
3063 [2018-12-19 07:32:59.052730] iteration 2
3064 [2018-12-19 07:33:01.684322] iteration 3
3065 [2018-12-19 07:33:04.161518] iteration 4
3066 [2018-12-19 07:33:07.193225] training MLP [6, 5, 3] withn
    n=0.003
3067 [2018-12-19 07:33:07.193225] iteration 0
3068 [2018-12-19 07:33:09.958660] iteration 1
3069 [2018-12-19 07:33:12.570120] iteration 2
3070 [2018-12-19 07:33:15.161463] iteration 3
3071 [2018-12-19 07:33:17.690854] iteration 4
3072 ##### Seeds Experiment - Layers [6, 5, 3]
3073
3074 Best n:
3075 0.3
3076 Confusion Matrix:
3077 [[ 8  0  6]
3078 [ 2 12  0]
3079 [ 0  0 14]]
3080 Precision:
3081 0.8095238095238095
3082 [2018-12-19 07:33:20.431973] training MLP [6, 5, 4] withn
    n=0.3
3083 [2018-12-19 07:33:20.431973] iteration 0
3084 [2018-12-19 07:33:23.022131] iteration 1
3085 [2018-12-19 07:33:25.566075] iteration 2
3086 [2018-12-19 07:33:28.146267] iteration 3
3087 [2018-12-19 07:33:30.815998] iteration 4
3088 [2018-12-19 07:33:33.474446] training MLP [6, 5, 4] withn
    n=0.1
3089 [2018-12-19 07:33:33.474446] iteration 0
3090 [2018-12-19 07:33:36.147647] iteration 1
3091 [2018-12-19 07:33:38.701653] iteration 2
3092 [2018-12-19 07:33:41.302796] iteration 3
3093 [2018-12-19 07:33:43.857823] iteration 4
3094 [2018-12-19 07:33:46.359463] training MLP [6, 5, 4] withn
```

## File - seeds

```
3094 n=0.03
3095 [2018-12-19 07:33:46.359463] iteration 0
3096 [2018-12-19 07:33:49.051648] iteration 1
3097 [2018-12-19 07:33:51.686189] iteration 2
3098 [2018-12-19 07:33:54.192707] iteration 3
3099 [2018-12-19 07:33:56.758841] iteration 4
3100 [2018-12-19 07:33:59.509930] training MLP [6, 5, 4] withn
    n=0.01
3101 [2018-12-19 07:33:59.509930] iteration 0
3102 [2018-12-19 07:34:02.177575] iteration 1
3103 [2018-12-19 07:34:04.749174] iteration 2
3104 [2018-12-19 07:34:07.255360] iteration 3
3105 [2018-12-19 07:34:10.084498] iteration 4
3106 [2018-12-19 07:34:12.809837] training MLP [6, 5, 4] withn
    n=0.003
3107 [2018-12-19 07:34:12.809837] iteration 0
3108 [2018-12-19 07:34:15.389185] iteration 1
3109 [2018-12-19 07:34:17.997983] iteration 2
3110 [2018-12-19 07:34:20.616262] iteration 3
3111 [2018-12-19 07:34:23.287087] iteration 4
3112 ##### Seeds Experiment - Layers [6, 5, 4]
3113
3114 Best n:
3115 0.3
3116 Confusion Matrix:
3117 [[12 1 1]
3118 [ 1 13 0]
3119 [ 2 0 12]]
3120 Precision:
3121 0.8809523809523809
3122 [2018-12-19 07:34:26.020602] training MLP [6, 5, 5] withn
    n=0.3
3123 [2018-12-19 07:34:26.020602] iteration 0
3124 [2018-12-19 07:34:28.540642] iteration 1
3125 [2018-12-19 07:34:31.225637] iteration 2
3126 [2018-12-19 07:34:33.896460] iteration 3
3127 [2018-12-19 07:34:36.417835] iteration 4
3128 [2018-12-19 07:34:39.068507] training MLP [6, 5, 5] withn
    n=0.1
3129 [2018-12-19 07:34:39.068507] iteration 0
3130 [2018-12-19 07:34:41.755110] iteration 1
3131 [2018-12-19 07:34:44.302182] iteration 2
3132 [2018-12-19 07:34:46.847668] iteration 3
3133 [2018-12-19 07:34:49.460210] iteration 4
3134 [2018-12-19 07:34:52.005422] training MLP [6, 5, 5] withn
```

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```
3134 n=0.03
3135 [2018-12-19 07:34:52.005422] iteration 0
3136 [2018-12-19 07:34:54.606860] iteration 1
3137 [2018-12-19 07:34:57.368591] iteration 2
3138 [2018-12-19 07:34:59.942644] iteration 3
3139 [2018-12-19 07:35:04.881110] iteration 4
3140 [2018-12-19 07:35:07.796734] training MLP [6, 5, 5] withn
    n=0.01
3141 [2018-12-19 07:35:07.796734] iteration 0
3142 [2018-12-19 07:35:10.256430] iteration 1
3143 [2018-12-19 07:35:12.591816] iteration 2
3144 [2018-12-19 07:35:14.975477] iteration 3
3145 [2018-12-19 07:35:17.348066] iteration 4
3146 [2018-12-19 07:35:19.597042] training MLP [6, 5, 5] withn
    n=0.003
3147 [2018-12-19 07:35:19.597042] iteration 0
3148 [2018-12-19 07:35:21.912986] iteration 1
3149 [2018-12-19 07:35:24.448993] iteration 2
3150 [2018-12-19 07:35:26.974868] iteration 3
3151 [2018-12-19 07:35:29.642707] iteration 4
3152 ##### Seeds Experiment - Layers [6, 5, 5]
3153
3154 Best n:
3155 0.3
3156 Confusion Matrix:
3157 [[13  0  1]
3158 [ 0 14  0]
3159 [ 1  0 13]]
3160 Precision:
3161 0.9523809523809523
3162 [2018-12-19 07:35:32.209034] training MLP [6, 5, 6] withn
    n=0.3
3163 [2018-12-19 07:35:32.209034] iteration 0
3164 [2018-12-19 07:35:34.688594] iteration 1
3165 [2018-12-19 07:35:37.177480] iteration 2
3166 [2018-12-19 07:35:39.392253] iteration 3
3167 [2018-12-19 07:35:41.661039] iteration 4
3168 [2018-12-19 07:35:43.897219] training MLP [6, 5, 6] withn
    n=0.1
3169 [2018-12-19 07:35:43.897219] iteration 0
3170 [2018-12-19 07:35:46.115765] iteration 1
3171 [2018-12-19 07:35:48.375384] iteration 2
3172 [2018-12-19 07:35:50.692574] iteration 3
3173 [2018-12-19 07:35:53.005856] iteration 4
3174 [2018-12-19 07:35:55.338933] training MLP [6, 5, 6] withn
```

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```
3174 n=0.03
3175 [2018-12-19 07:35:55.338933] iteration 0
3176 [2018-12-19 07:35:57.582442] iteration 1
3177 [2018-12-19 07:35:59.820619] iteration 2
3178 [2018-12-19 07:36:02.036522] iteration 3
3179 [2018-12-19 07:36:04.303716] iteration 4
3180 [2018-12-19 07:36:06.631861] training MLP [6, 5, 6] withn
    n=0.01
3181 [2018-12-19 07:36:06.631861] iteration 0
3182 [2018-12-19 07:36:08.881447] iteration 1
3183 [2018-12-19 07:36:11.134589] iteration 2
3184 [2018-12-19 07:36:13.365556] iteration 3
3185 [2018-12-19 07:36:15.598667] iteration 4
3186 [2018-12-19 07:36:17.877171] training MLP [6, 5, 6] withn
    n=0.003
3187 [2018-12-19 07:36:17.877171] iteration 0
3188 [2018-12-19 07:36:20.161607] iteration 1
3189 [2018-12-19 07:36:22.415055] iteration 2
3190 [2018-12-19 07:36:24.630124] iteration 3
3191 [2018-12-19 07:36:26.868325] iteration 4
3192 ##### Seeds Experiment - Layers [6, 5, 6]
3193
3194 Best n:
3195 0.3
3196 Confusion Matrix:
3197 [[13  0  1]
3198 [ 1 13  0]
3199 [ 1  0 13]]
3200 Precision:
3201 0.9285714285714286
3202 [2018-12-19 07:36:29.181894] training MLP [6, 6, 3] withn
    n=0.3
3203 [2018-12-19 07:36:29.181894] iteration 0
3204 [2018-12-19 07:36:31.430393] iteration 1
3205 [2018-12-19 07:36:33.654873] iteration 2
3206 [2018-12-19 07:36:35.946445] iteration 3
3207 [2018-12-19 07:36:38.165874] iteration 4
3208 [2018-12-19 07:36:40.462078] training MLP [6, 6, 3] withn
    n=0.1
3209 [2018-12-19 07:36:40.462078] iteration 0
3210 [2018-12-19 07:36:42.919952] iteration 1
3211 [2018-12-19 07:36:45.178196] iteration 2
3212 [2018-12-19 07:36:47.408946] iteration 3
3213 [2018-12-19 07:36:49.661190] iteration 4
3214 [2018-12-19 07:36:51.881743] training MLP [6, 6, 3] withn
```

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```
3214 n=0.03
3215 [2018-12-19 07:36:51.881743] iteration 0
3216 [2018-12-19 07:36:54.148232] iteration 1
3217 [2018-12-19 07:36:56.379421] iteration 2
3218 [2018-12-19 07:36:58.616821] iteration 3
3219 [2018-12-19 07:37:00.862774] iteration 4
3220 [2018-12-19 07:37:03.181856] training MLP [6, 6, 3] withn
    n=0.01
3221 [2018-12-19 07:37:03.181856] iteration 0
3222 [2018-12-19 07:37:05.444479] iteration 1
3223 [2018-12-19 07:37:07.731050] iteration 2
3224 [2018-12-19 07:37:10.015053] iteration 3
3225 [2018-12-19 07:37:12.261801] iteration 4
3226 [2018-12-19 07:37:14.477680] training MLP [6, 6, 3] withn
    n=0.003
3227 [2018-12-19 07:37:14.477680] iteration 0
3228 [2018-12-19 07:37:16.699110] iteration 1
3229 [2018-12-19 07:37:18.959889] iteration 2
3230 [2018-12-19 07:37:21.185646] iteration 3
3231 [2018-12-19 07:37:23.416868] iteration 4
3232 ##### Seeds Experiment - Layers [6, 6, 3]
3233
3234 Best n:
3235 0.3
3236 Confusion Matrix:
3237 [[13  0  1]
3238 [ 2 12  0]
3239 [ 2  0 12]]
3240 Precision:
3241 0.8809523809523809
3242 [2018-12-19 07:37:25.717185] training MLP [6, 6, 4] withn
    n=0.3
3243 [2018-12-19 07:37:25.717185] iteration 0
3244 [2018-12-19 07:37:28.019197] iteration 1
3245 [2018-12-19 07:37:30.359957] iteration 2
3246 [2018-12-19 07:37:32.606415] iteration 3
3247 [2018-12-19 07:37:34.844357] iteration 4
3248 [2018-12-19 07:37:37.083478] training MLP [6, 6, 4] withn
    n=0.1
3249 [2018-12-19 07:37:37.083478] iteration 0
3250 [2018-12-19 07:37:39.299753] iteration 1
3251 [2018-12-19 07:37:41.544800] iteration 2
3252 [2018-12-19 07:37:43.766973] iteration 3
3253 [2018-12-19 07:37:45.974211] iteration 4
3254 [2018-12-19 07:37:48.208507] training MLP [6, 6, 4] withn
```

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```
3254 n=0.03
3255 [2018-12-19 07:37:48.208507] iteration 0
3256 [2018-12-19 07:37:50.439476] iteration 1
3257 [2018-12-19 07:37:52.695253] iteration 2
3258 [2018-12-19 07:37:54.975036] iteration 3
3259 [2018-12-19 07:37:57.211573] iteration 4
3260 [2018-12-19 07:37:59.473228] training MLP [6, 6, 4] withn
    n=0.01
3261 [2018-12-19 07:37:59.473228] iteration 0
3262 [2018-12-19 07:38:01.728698] iteration 1
3263 [2018-12-19 07:38:03.942787] iteration 2
3264 [2018-12-19 07:38:06.214824] iteration 3
3265 [2018-12-19 07:38:08.427503] iteration 4
3266 [2018-12-19 07:38:10.664358] training MLP [6, 6, 4] withn
    n=0.003
3267 [2018-12-19 07:38:10.664358] iteration 0
3268 [2018-12-19 07:38:12.881091] iteration 1
3269 [2018-12-19 07:38:15.120022] iteration 2
3270 [2018-12-19 07:38:17.434011] iteration 3
3271 [2018-12-19 07:38:19.776042] iteration 4
3272 ##### Seeds Experiment - Layers [6, 6, 4]
3273
3274 Best n:
3275 0.3
3276 Confusion Matrix:
3277 [[11  2  1]
3278 [ 0 14  0]
3279 [ 2  0 12]]
3280 Precision:
3281 0.8809523809523809
3282 [2018-12-19 07:38:22.172425] training MLP [6, 6, 5] withn
    n=0.3
3283 [2018-12-19 07:38:22.172425] iteration 0
3284 [2018-12-19 07:38:24.435212] iteration 1
3285 [2018-12-19 07:38:26.704022] iteration 2
3286 [2018-12-19 07:38:28.959161] iteration 3
3287 [2018-12-19 07:38:31.237220] iteration 4
3288 [2018-12-19 07:38:33.499256] training MLP [6, 6, 5] withn
    n=0.1
3289 [2018-12-19 07:38:33.499256] iteration 0
3290 [2018-12-19 07:38:35.737293] iteration 1
3291 [2018-12-19 07:38:37.975722] iteration 2
3292 [2018-12-19 07:38:40.254922] iteration 3
3293 [2018-12-19 07:38:42.523084] iteration 4
3294 [2018-12-19 07:38:44.847388] training MLP [6, 6, 5] withn
```

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```
3294 n=0.03
3295 [2018-12-19 07:38:44.847388] iteration 0
3296 [2018-12-19 07:38:47.181028] iteration 1
3297 [2018-12-19 07:38:49.522285] iteration 2
3298 [2018-12-19 07:38:51.776157] iteration 3
3299 [2018-12-19 07:38:54.012231] iteration 4
3300 [2018-12-19 07:38:56.246232] training MLP [6, 6, 5] withn
    n=0.01
3301 [2018-12-19 07:38:56.246232] iteration 0
3302 [2018-12-19 07:38:58.493831] iteration 1
3303 [2018-12-19 07:39:00.714575] iteration 2
3304 [2018-12-19 07:39:02.942559] iteration 3
3305 [2018-12-19 07:39:05.217456] iteration 4
3306 [2018-12-19 07:39:07.432290] training MLP [6, 6, 5] withn
    n=0.003
3307 [2018-12-19 07:39:07.432290] iteration 0
3308 [2018-12-19 07:39:09.701577] iteration 1
3309 [2018-12-19 07:39:12.066679] iteration 2
3310 [2018-12-19 07:39:14.375410] iteration 3
3311 [2018-12-19 07:39:16.608052] iteration 4
3312 ##### Seeds Experiment - Layers [6, 6, 5]
3313
3314 Best n:
3315 0.3
3316 Confusion Matrix:
3317 [[13 0 1]
3318 [ 1 13 0]
3319 [ 1 0 13]]
3320 Precision:
3321 0.9285714285714286
3322 [2018-12-19 07:39:18.944079] training MLP [6, 6, 6] withn
    n=0.3
3323 [2018-12-19 07:39:18.944079] iteration 0
3324 [2018-12-19 07:39:21.146170] iteration 1
3325 [2018-12-19 07:39:23.424661] iteration 2
3326 [2018-12-19 07:39:25.645112] iteration 3
3327 [2018-12-19 07:39:27.881659] iteration 4
3328 [2018-12-19 07:39:30.148391] training MLP [6, 6, 6] withn
    n=0.1
3329 [2018-12-19 07:39:30.148391] iteration 0
3330 [2018-12-19 07:39:32.379616] iteration 1
3331 [2018-12-19 07:39:34.660006] iteration 2
3332 [2018-12-19 07:39:36.927748] iteration 3
3333 [2018-12-19 07:39:39.166067] iteration 4
3334 [2018-12-19 07:39:41.413246] training MLP [6, 6, 6] withn
```

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```
3334 n=0.03
3335 [2018-12-19 07:39:41.413246] iteration 0
3336 [2018-12-19 07:39:43.696875] iteration 1
3337 [2018-12-19 07:39:45.912597] iteration 2
3338 [2018-12-19 07:39:48.137729] iteration 3
3339 [2018-12-19 07:39:50.383063] iteration 4
3340 [2018-12-19 07:39:52.651801] training MLP [6, 6, 6] with
    n=0.01
3341 [2018-12-19 07:39:52.651801] iteration 0
3342 [2018-12-19 07:39:54.943504] iteration 1
3343 [2018-12-19 07:39:57.201741] iteration 2
3344 [2018-12-19 07:39:59.463393] iteration 3
3345 [2018-12-19 07:40:01.753553] iteration 4
3346 [2018-12-19 07:40:04.035136] training MLP [6, 6, 6] with
    n=0.003
3347 [2018-12-19 07:40:04.035136] iteration 0
3348 [2018-12-19 07:40:06.250118] iteration 1
3349 [2018-12-19 07:40:08.528237] iteration 2
3350 [2018-12-19 07:40:10.797763] iteration 3
3351 [2018-12-19 07:40:13.053040] iteration 4
3352 ##### Seeds Experiment - Layers [6, 6, 6]
3353
3354 Best n:
3355 0.3
3356 Confusion Matrix:
3357 [[13  0  1]
3358 [ 1 13  0]
3359 [ 1  0 13]]
3360 Precision:
3361 0.9285714285714286
3362 ##### Seeds Experiment - Best Topology [3]
3363
3364 Best n:
3365 0.3
3366 Confusion Matrix:
3367 [[12  0  2]
3368 [ 0 14  0]
3369 [ 0  0 14]]
3370 Test Precision:
3371 0.9761904761904762
3372 Validation Precision:
3373 0.9523809523809523
3374
3375 Process finished with exit code 0
3376
```