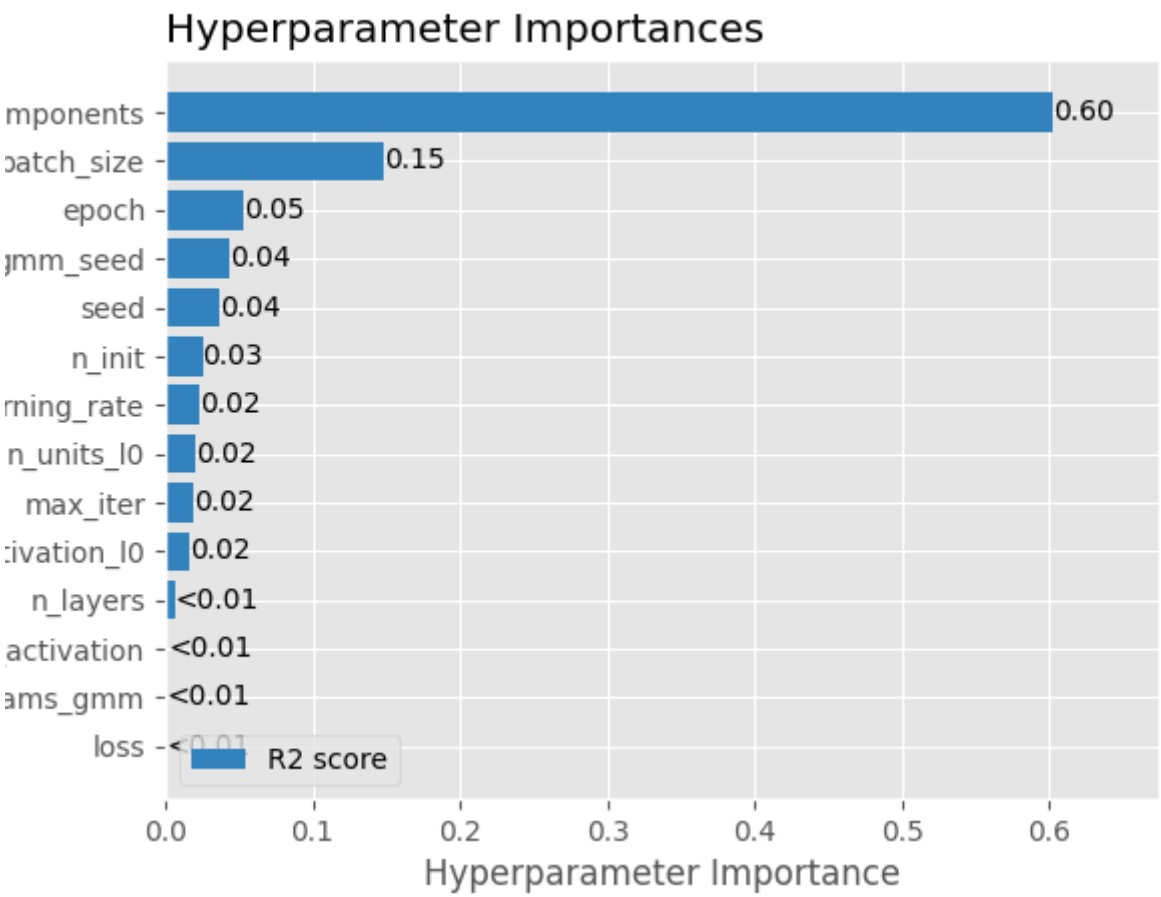
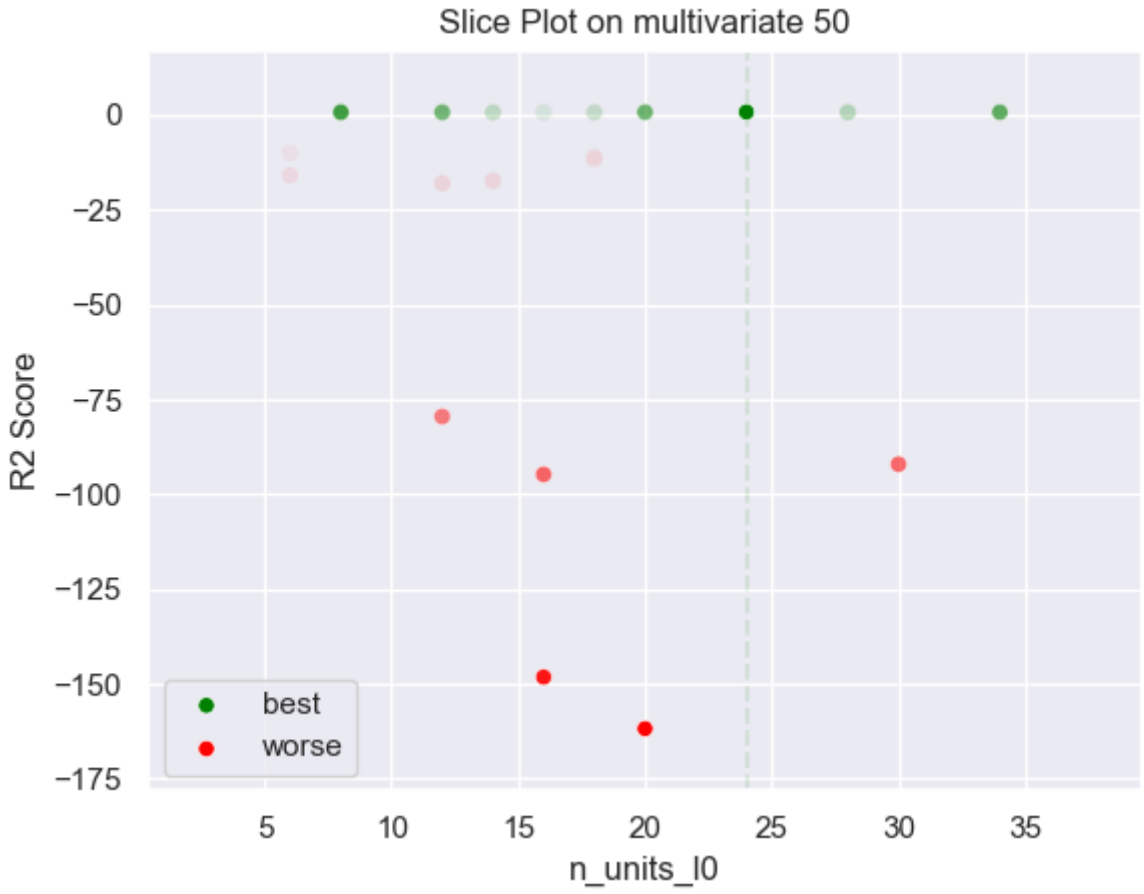
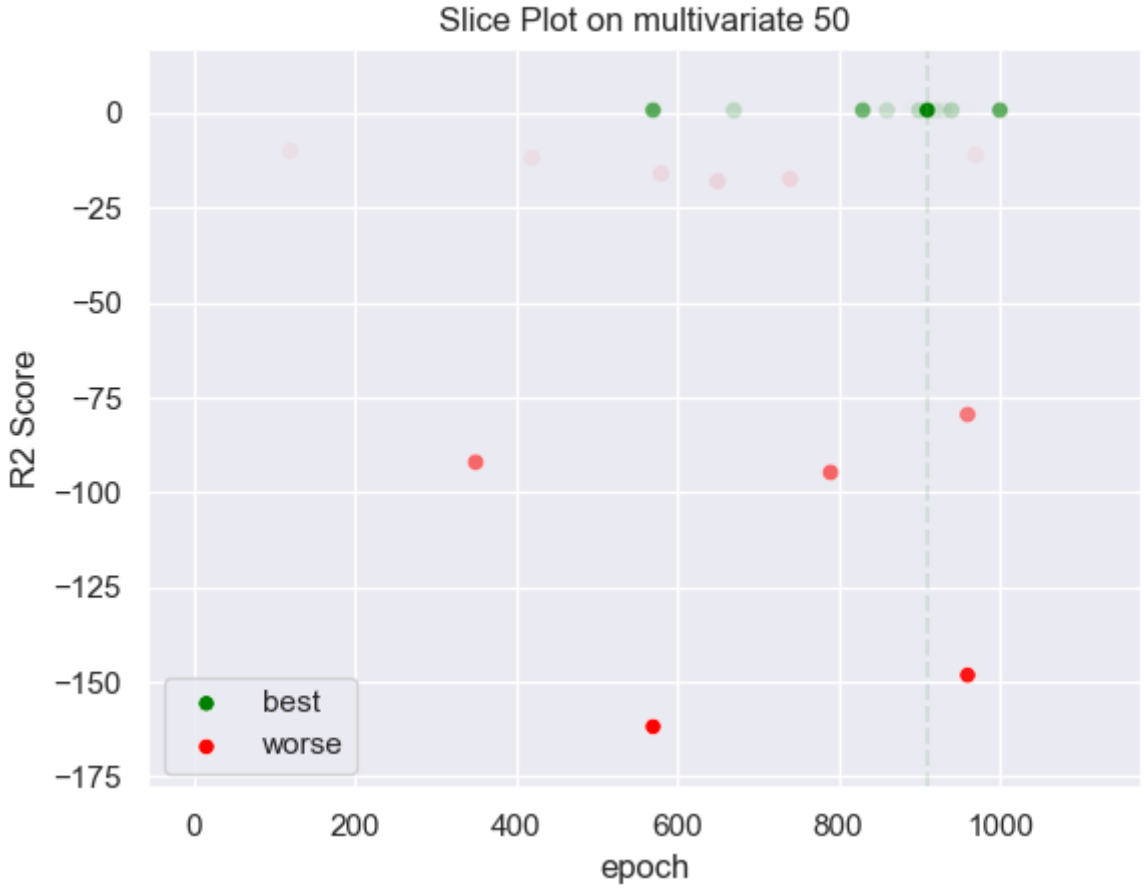
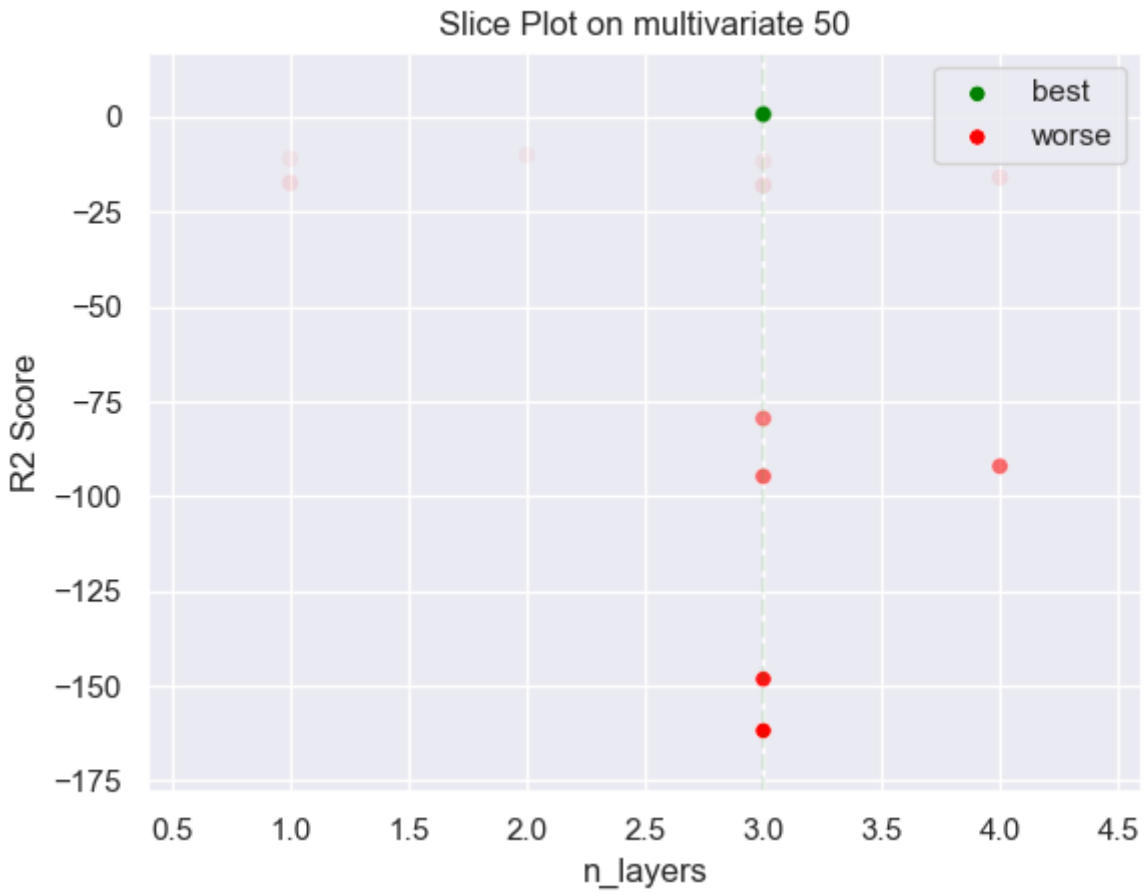
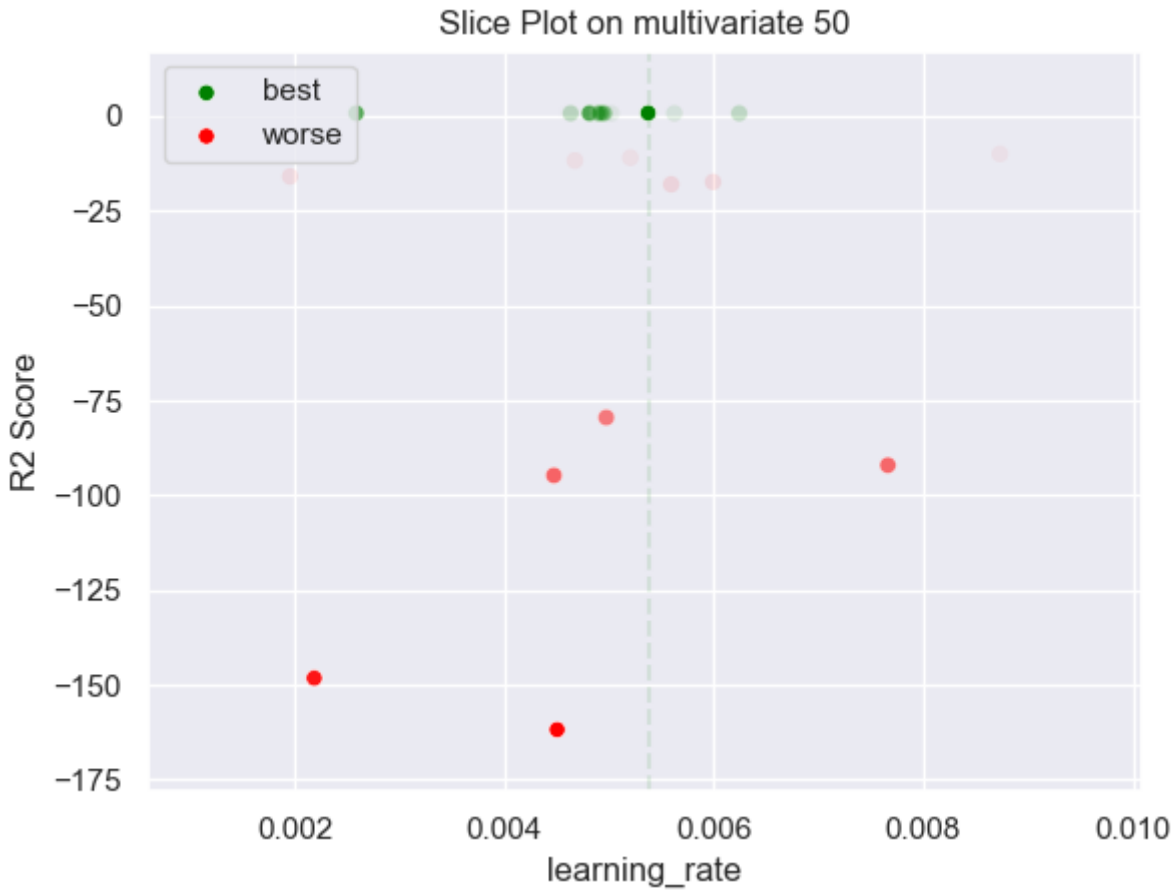
MLP GMM 50 multivariate

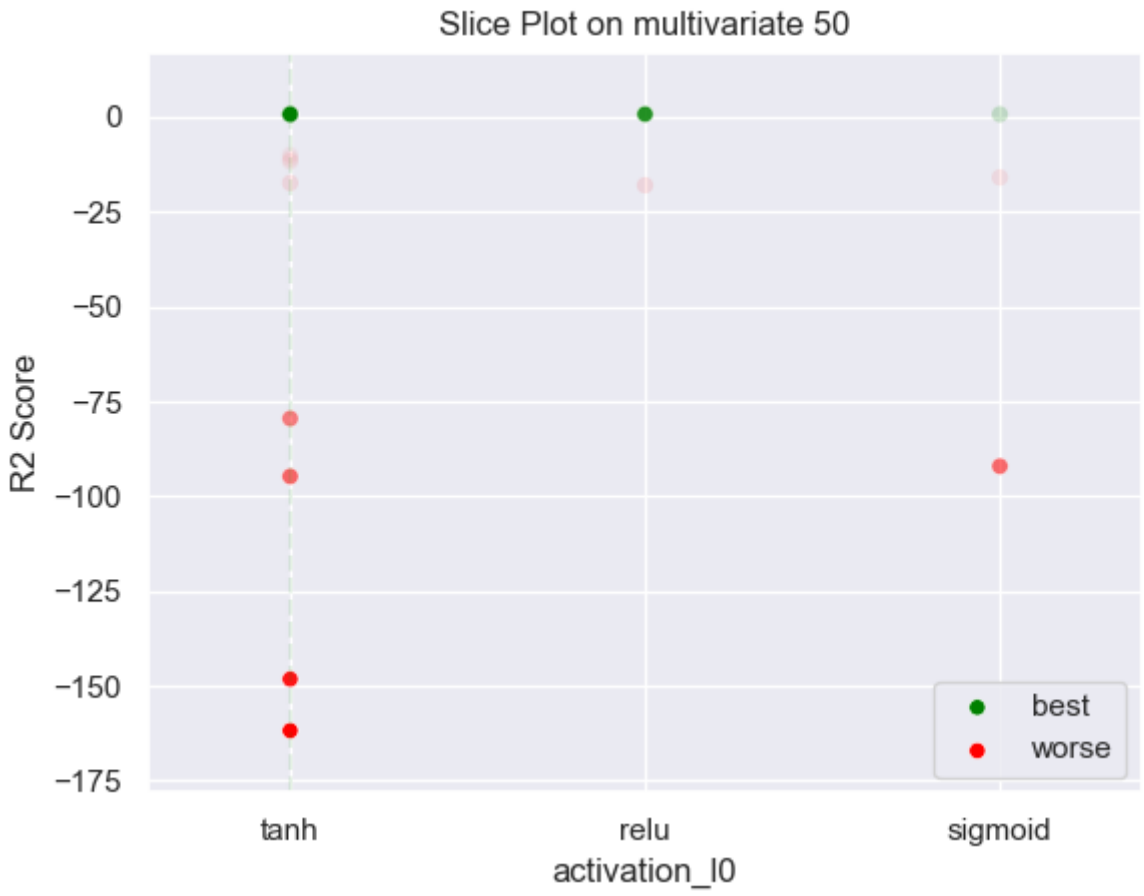


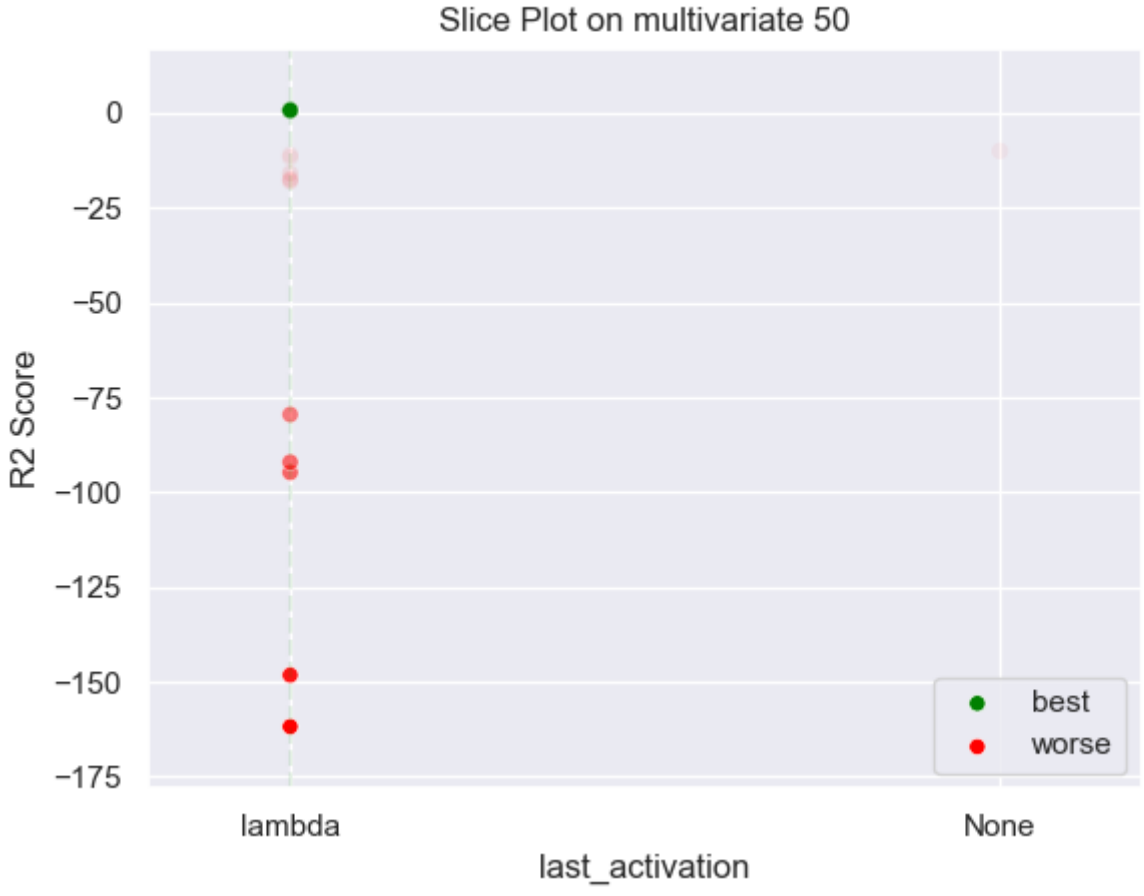

Slice Plot on multivariate 50
R2 Score
0
−25
−50
−75
−100
−125
−150
−175
5
10
15
20
25
30
35
n_units_l0
best
worse

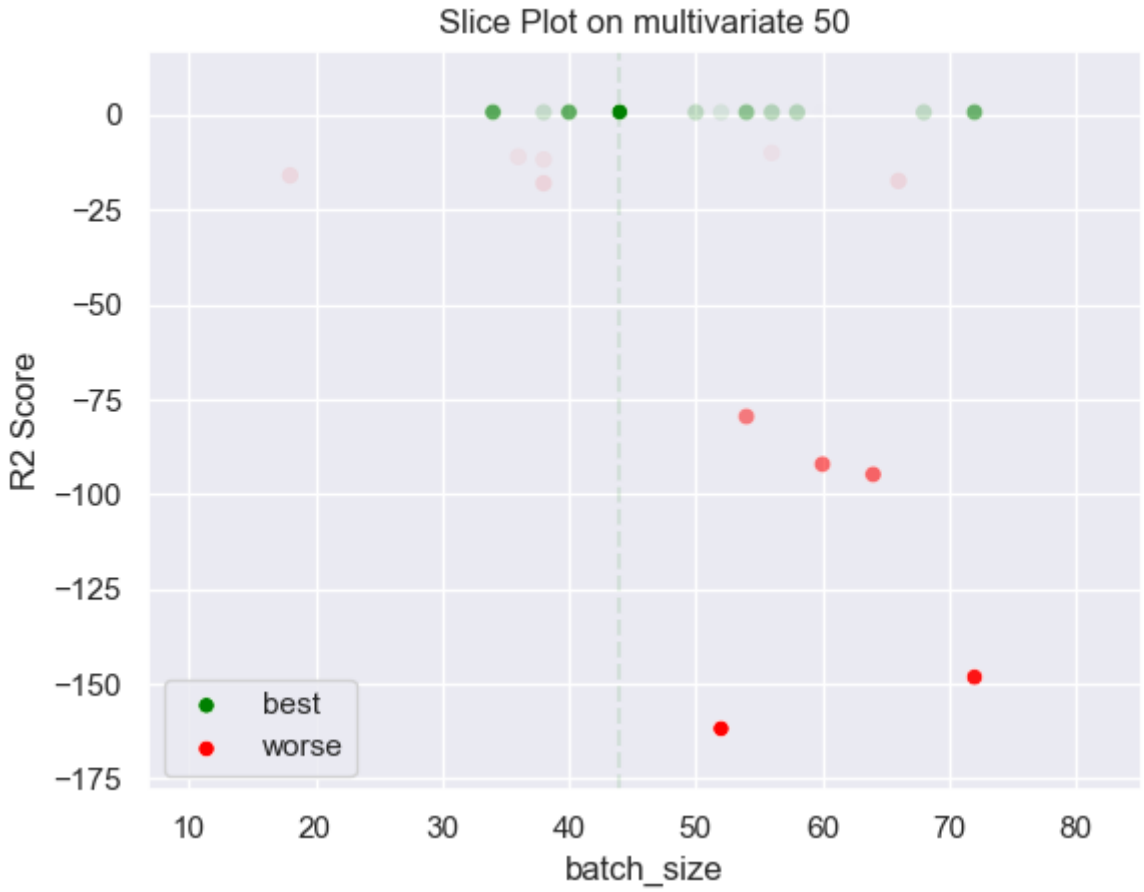

Slice Plot on multivariate 50
R2 Score
0
−25
−50
−75
−100
−125
−150
−175
0
200
400
600
800
1000
epoch
best
worse

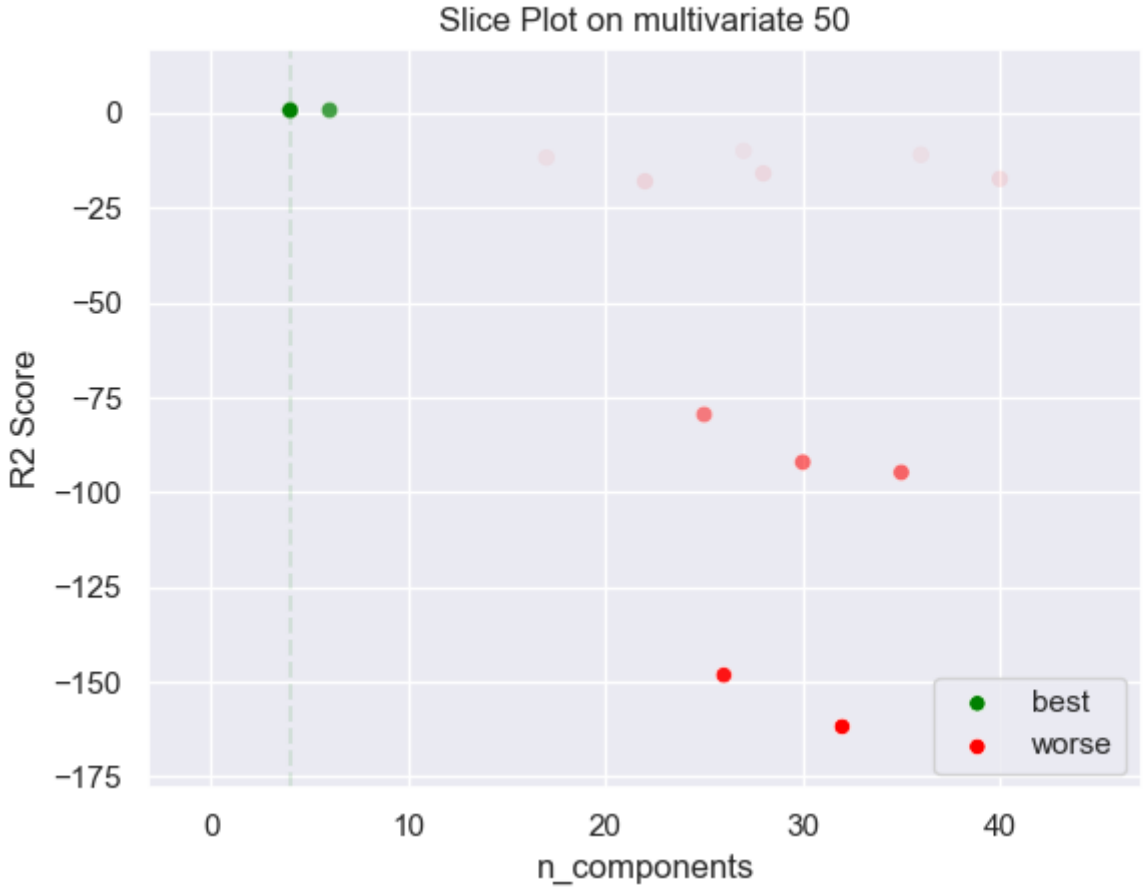

Slice Plot on multivariate 50
best
worse
R2 Score
0
−25
−50
−75
−100
−125
−150
−175
0.5
1.0
1.5
2.0
2.5
3.0
3.5
4.0
4.5
n_layers


Slice Plot on multivariate 50
best
worse
R2 Score
0
−25
−50
−75
−100
−125
−150
−175
0.002
0.004
0.006
0.008
0.010
learning_rate


Slice Plot on multivariate 50
R2 Score
0
−25
−50
−75
−100
−125
−150
−175
best
worse
tanh
relu
sigmoid
activation_l0


Slice Plot on multivariate 50
R2 Score
0
−25
−50
−75
−100
−125
−150
−175
best
worse
lambda
None
last_activation


Slice Plot on multivariate 50
R2 Score
0
−25
−50
−75
−100
−125
−150
−175
10
20
30
40
50
60
70
80
batch_size
best
worse


Slice Plot on multivariate 50
R2 Score
0
−25
−50
−75
−100
−125
−150
−175
0
10
20
30
40
n_components
best
worse

TOP 3

- R2 score: **0.80336532**
    - **seed** : *47*
    - **n_init** : *40*
    - **max_iter** : *70*
    - **n_components** : *4*
    - **gmm_seed** : *14*
    - **init_params_gmm** : *k-means++*
    - **n_layers** : *3*
    - **n_units_l0** : *24*
    - **activation_l0** : *tanh*
    - **n_units_l1** : *26*
    - **activation_l1** : *tanh*
    - **n_units_l2** : *48*
    - **activation_l2** : *tanh*
    - **last_activation** : *lambda*
    - **learning_rate** : *0.00537*
    - **epoch** : *910*
    - **loss** : *mse_loss*
    - **batch_size** : *44*
- R2 score: **0.76771529**
    - **seed** : *61*
    - **n_init** : *50*
    - **max_iter** : *100*
    - **n_components** : *6*
    - **gmm_seed** : *34*
    - **init_params_gmm** : *k-means++*
    - **n_layers** : *3*
    - **n_units_l0** : *8*
    - **activation_l0** : *relu*
    - **n_units_l1** : *32*
    - **activation_l1** : *tanh*
    - **n_units_l2** : *38*
    - **activation_l2** : *tanh*
    - **last_activation** : *lambda*
    - **learning_rate** : *0.0025800000000000003*
    - **epoch** : *570*
    - **loss** : *mse_loss*
    - **batch_size** : *34*
- R2 score: **0.76536769**
    - **seed** : *56*
    - **n_init** : *50*
    - **max_iter** : *90*
    - **n_components** : *4*

- **gmm_seed** : *3*
- **init_params_gmm** : *k-means++*
- **n_layers** : *3*
- **n_units_l0** : *34*
- **activation_l0** : *relu*
- **n_units_l1** : *36*
- **activation_l1** : *tanh*
- **n_units_l2** : *42*
- **activation_l2** : *sigmoid*
- **last_activation** : *lambda*
- **learning_rate** : *0.00481*
- **epoch** : *1000*
- **loss** : *mse_loss*
- **batch_size** : *40*

WORST 3

- R2 score: **-161.76383327**

  - **seed** : *47*
  - **n_init** : *40*
  - **max_iter** : *70*
  - **n_components** : *4*
  - **gmm_seed** : *14*
  - **init_params_gmm** : *k-means++*
  - **n_layers** : *3*
  - **n_units_l0** : *24*
  - **activation_l0** : *tanh*
  - **n_units_l1** : *26*
  - **activation_l1** : *tanh*
  - **n_units_l2** : *48*
  - **activation_l2** : *tanh*
  - **last_activation** : *lambda*
  - **learning_rate** : *0.00537*
  - **epoch** : *910*
  - **loss** : *mse_loss*
  - **batch_size** : *44*

- R2 score: **-148.17838489**

  - **seed** : *61*
  - **n_init** : *50*
  - **max_iter** : *100*
  - **n_components** : *6*
  - **gmm_seed** : *34*
  - **init_params_gmm** : *k-means++*
  - **n_layers** : *3*
  - **n_units_l0** : *8*

    - **activation_l0** : *relu*
    - **n_units_l1** : *32*
    - **activation_l1** : *tanh*
    - **n_units_l2** : *38*
    - **activation_l2** : *tanh*
    - **last_activation** : *lambda*
    - **learning_rate** : *0.0025800000000000003*
    - **epoch** : *570*
    - **loss** : *mse_loss*
    - **batch_size** : *34*

- R2 score: **-94.74463689**

    - **seed** : *56*
    - **n_init** : *50*
    - **max_iter** : *90*
    - **n_components** : *4*
    - **gmm_seed** : *3*
    - **init_params_gmm** : *k-means++*
    - **n_layers** : *3*
    - **n_units_l0** : *34*
    - **activation_l0** : *relu*
    - **n_units_l1** : *36*
    - **activation_l1** : *tanh*
    - **n_units_l2** : *42*
    - **activation_l2** : *sigmoid*
    - **last_activation** : *lambda*
    - **learning_rate** : *0.00481*
    - **epoch** : *1000*
    - **loss** : *mse_loss*
    - **batch_size** : *40*