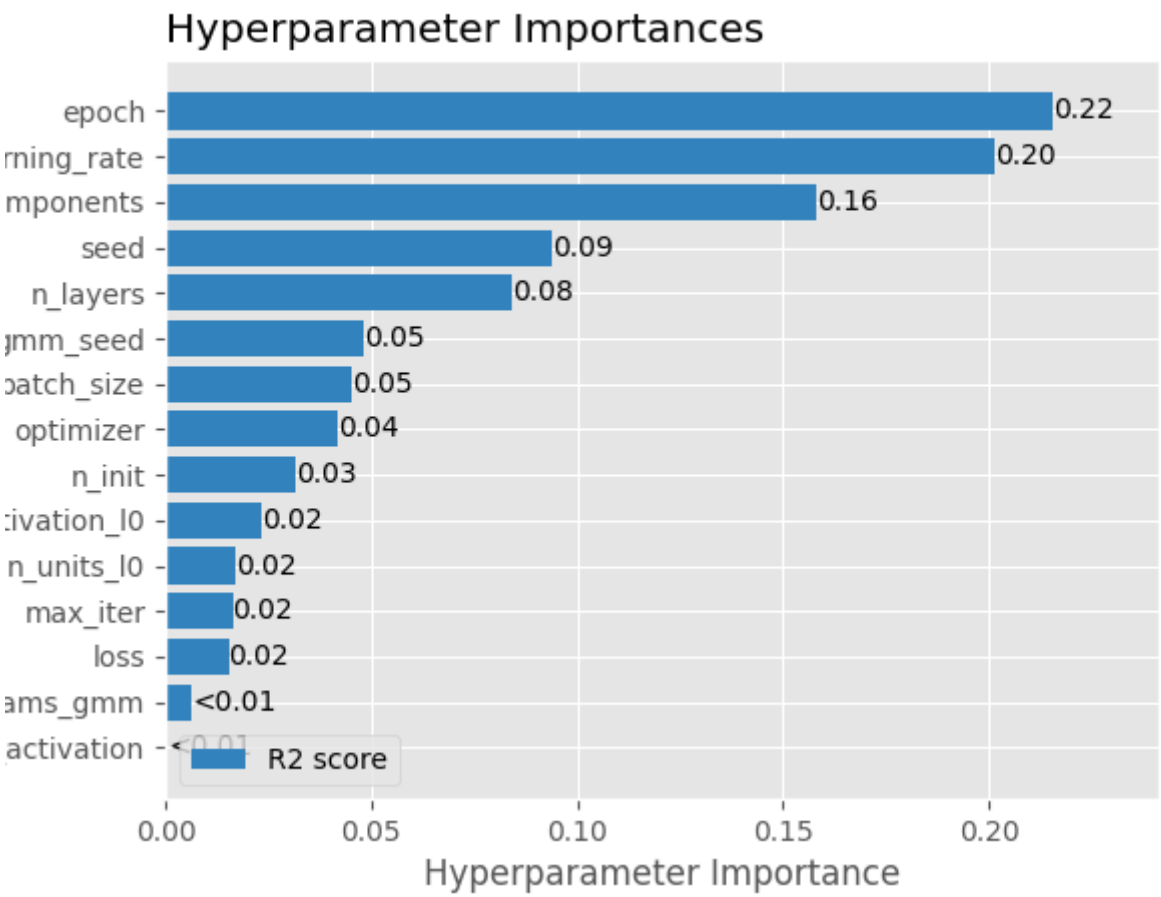
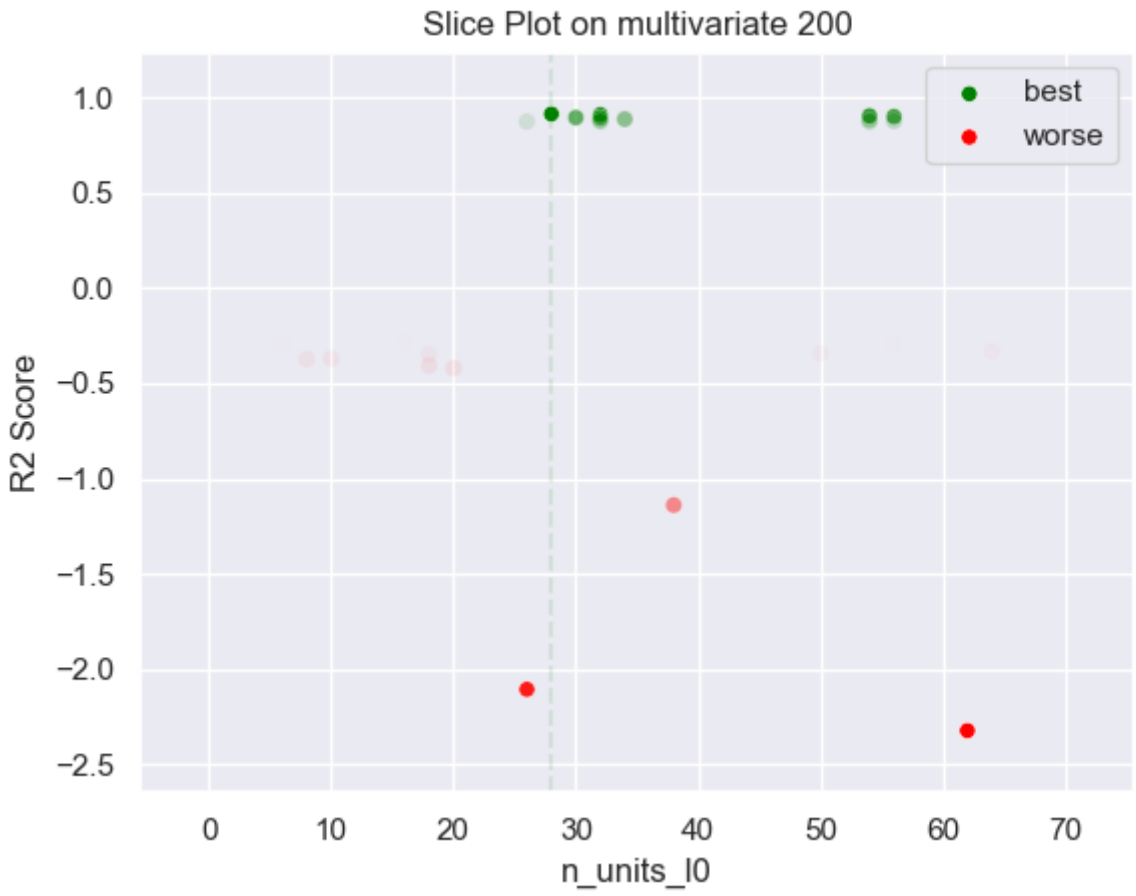
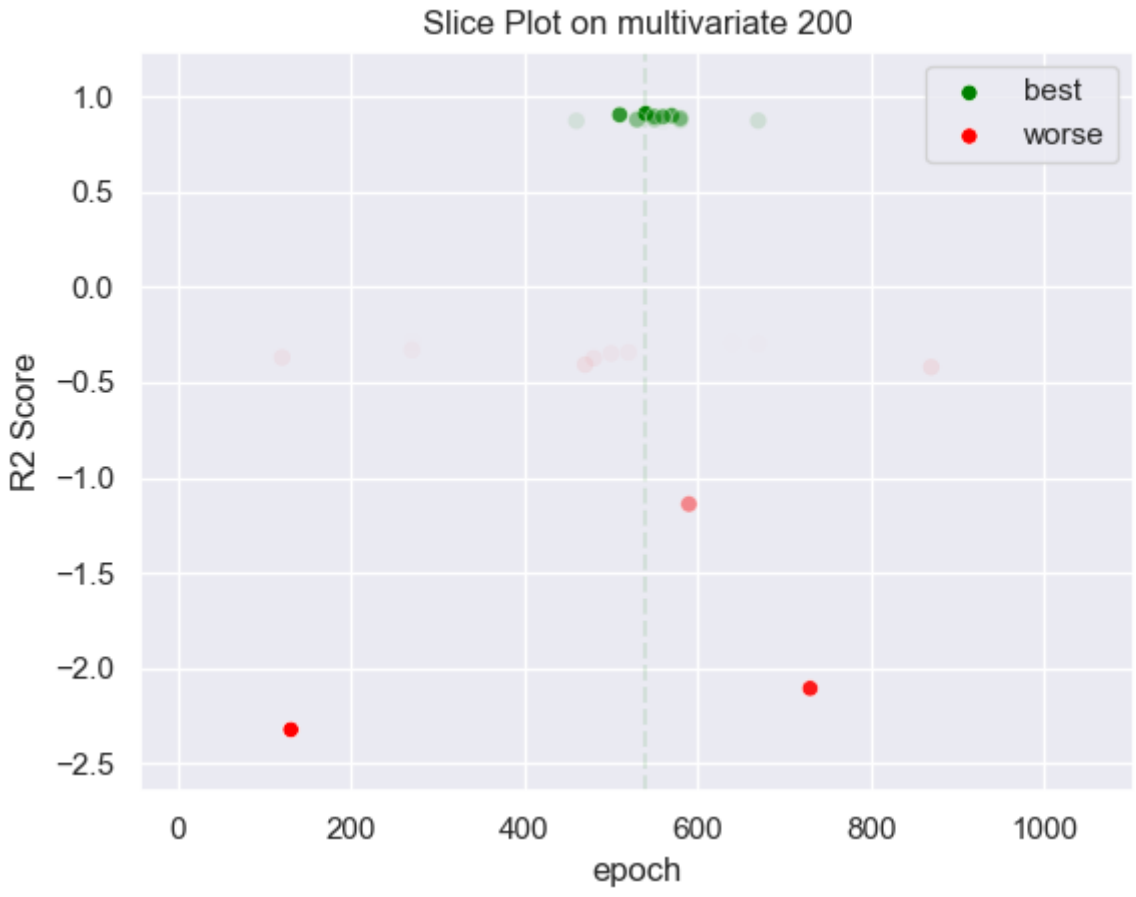
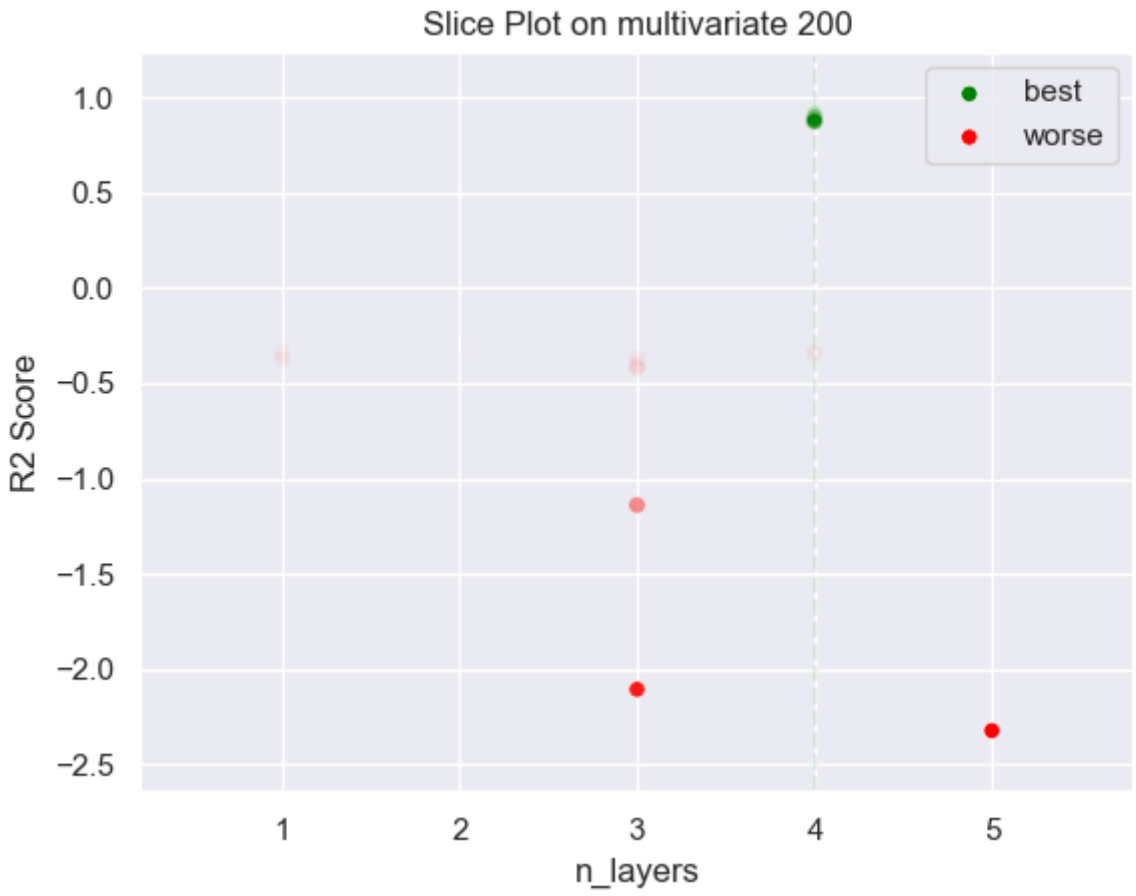
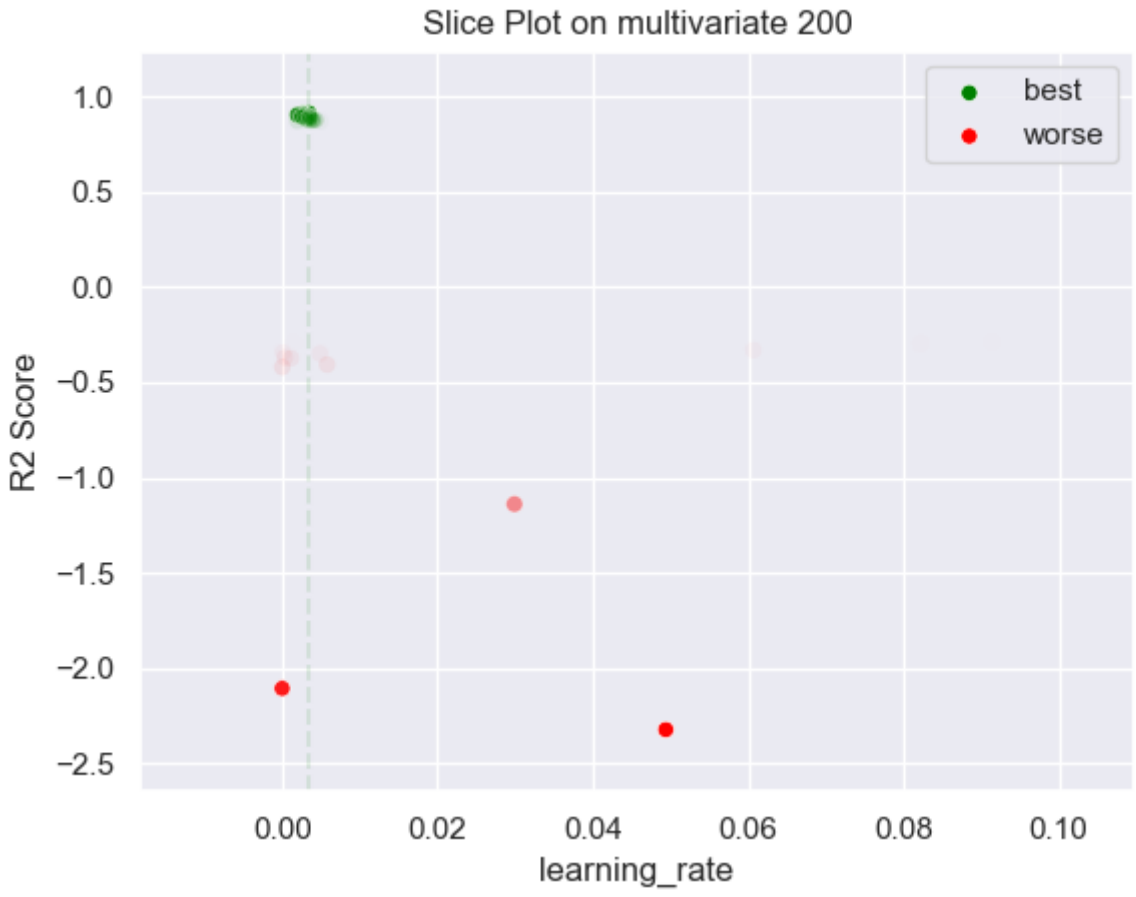
MLP GMM 200 multivariate

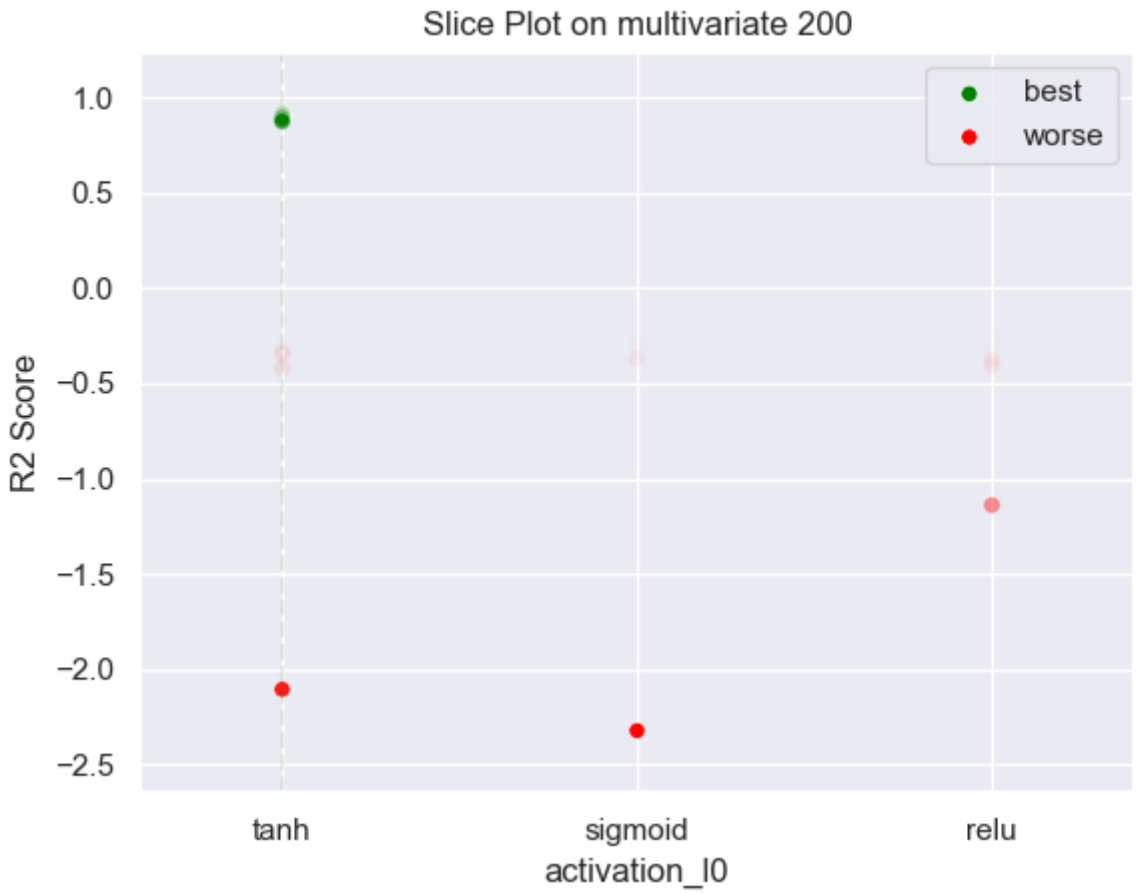


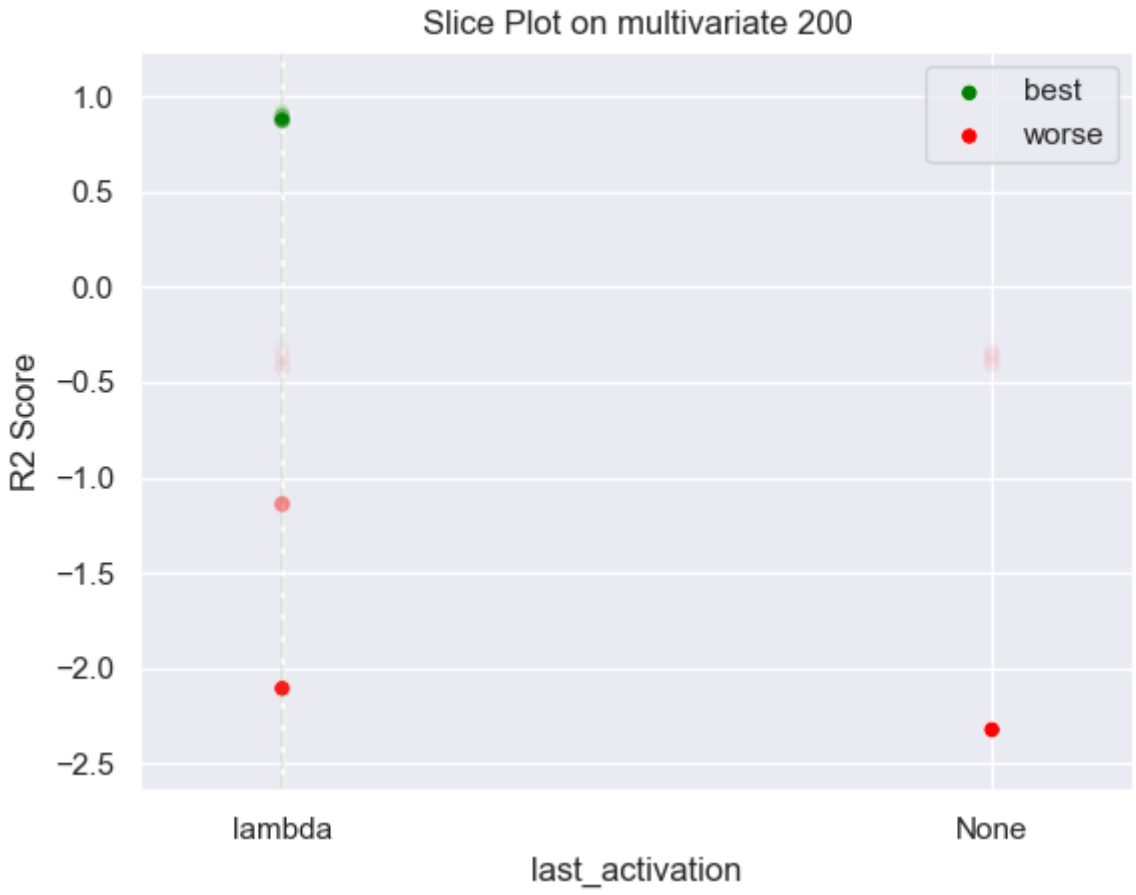

Slice Plot on multivariate 200
best
worse
R2 Score
1.0
0.5
0.0
−0.5
−1.0
−1.5
−2.0
−2.5
0
10
20
30
40
50
60
70
n_units_l0

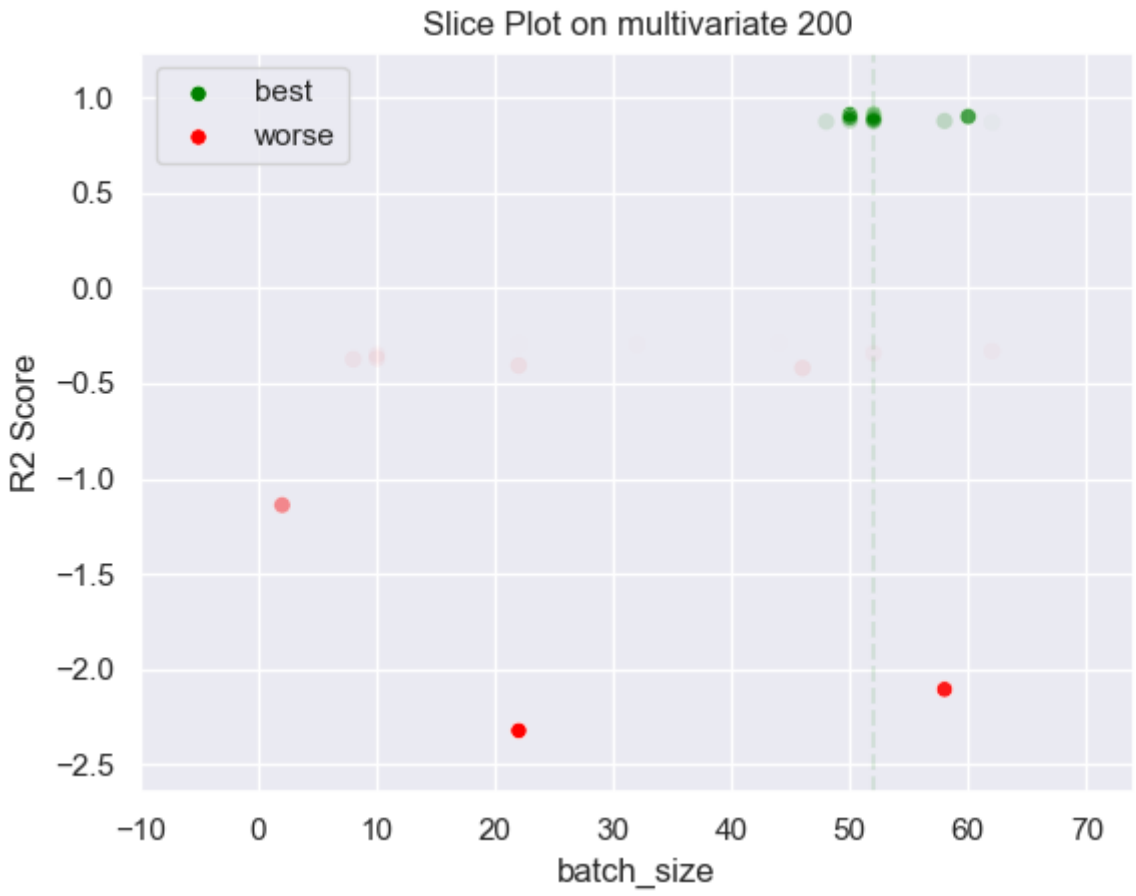

Slice Plot on multivariate 200
best
worse
R2 Score
1.0
0.5
0.0
−0.5
−1.0
−1.5
−2.0
−2.5
0
200
400
600
800
1000
epoch

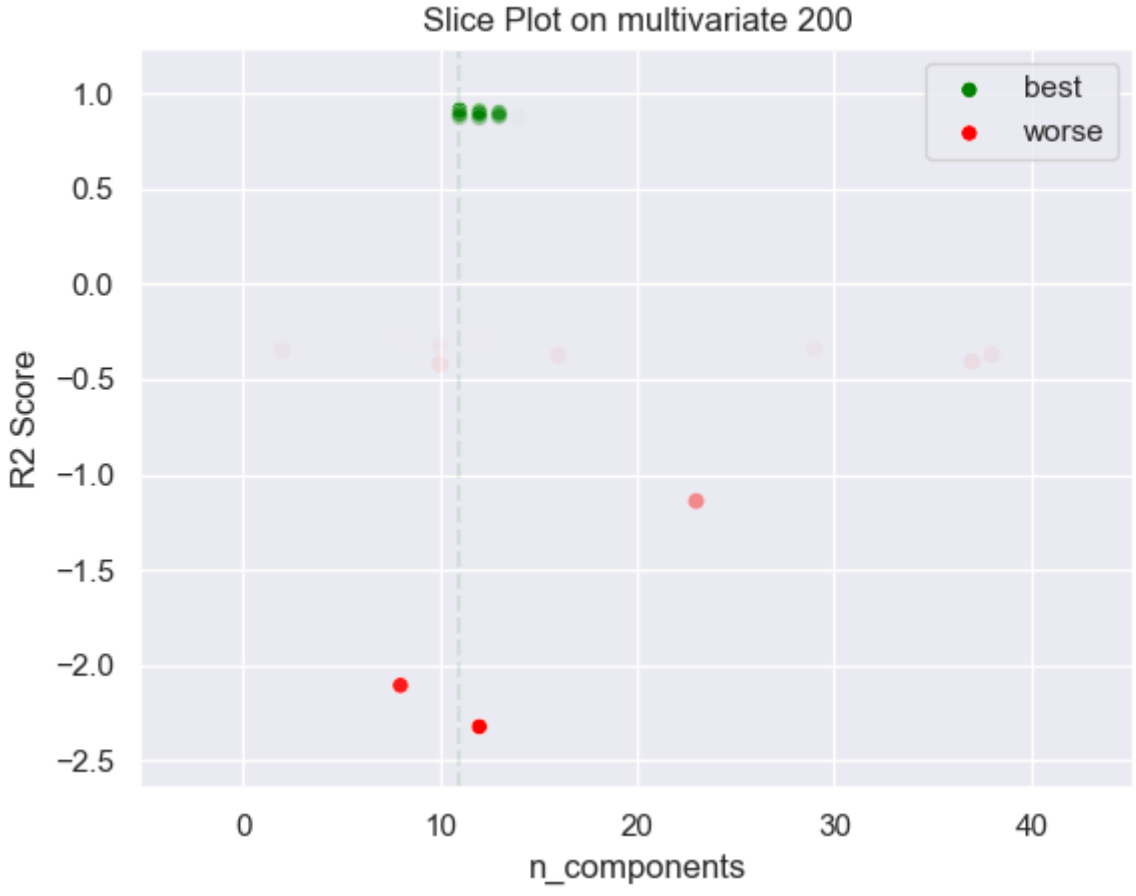

Slice Plot on multivariate 200
best
worse
R2 Score
1.0
0.5
0.0
−0.5
−1.0
−1.5
−2.0
−2.5
1
2
3
4
5
n_layers


Slice Plot on multivariate 200
best
worse
R2 Score
1.0
0.5
0.0
−0.5
−1.0
−1.5
−2.0
−2.5
0.00
0.02
0.04
0.06
0.08
0.10
learning_rate


Slice Plot on multivariate 200
best
worse
1.0
0.5
0.0
−0.5
−1.0
−1.5
−2.0
−2.5
R2 Score
tanh
sigmoid
relu
activation_l0


Slice Plot on multivariate 200
best
worse
1.0
0.5
0.0
−0.5
−1.0
−1.5
−2.0
−2.5
R2 Score
lambda
None
last_activation


Slice Plot on multivariate 200
best
worse
R2 Score
1.0
0.5
0.0
−0.5
−1.0
−1.5
−2.0
−2.5
−10
0
10
20
30
40
50
60
70
batch_size


Slice Plot on multivariate 200
best
worse
R2 Score
1.0
0.5
0.0
−0.5
−1.0
−1.5
−2.0
−2.5
0
10
20
30
40
n_components

TOP 3

- R2 score: **0.91327032**
    - **seed** : *31*
    - **n_init** : *20*
    - **max_iter** : *100*
    - **n_components** : *11*
    - **gmm_seed** : *37*
    - **init_params_gmm** : *k-means++*
    - **n_layers** : *4*
    - **n_units_l0** : *28*
    - **activation_l0** : *tanh*
    - **n_units_l1** : *20*
    - **activation_l1** : *sigmoid*
    - **n_units_l2** : *34*
    - **activation_l2** : *sigmoid*
    - **n_units_l3** : *26*
    - **activation_l3** : *tanh*
    - **last_activation** : *lambda*
    - **learning_rate** : *0.003454947958915411*
    - **epoch** : *540*
    - **optimizer** : *Adam*
    - **loss** : *huber_loss*
    - **batch_size** : *52*
- R2 score: **0.90986568**
    - **seed** : *42*
    - **n_init** : *10*
    - **max_iter** : *80*
    - **n_components** : *12*
    - **gmm_seed** : *56*
    - **init_params_gmm** : *k-means++*
    - **n_layers** : *4*
    - **n_units_l0** : *32*
    - **activation_l0** : *tanh*
    - **n_units_l1** : *18*
    - **activation_l1** : *sigmoid*
    - **n_units_l2** : *36*
    - **activation_l2** : *sigmoid*
    - **n_units_l3** : *14*
    - **activation_l3** : *tanh*
    - **last_activation** : *lambda*
    - **learning_rate** : *0.002640146742608952*
    - **epoch** : *540*
    - **optimizer** : *Adam*
    - **loss** : *huber_loss*
    - **batch_size** : *50*

- R2 score: **0.90366254**
    - **seed** : *25*
    - **n_init** : *30*
    - **max_iter** : *80*
    - **n_components** : *12*
    - **gmm_seed** : *32*
    - **init_params_gmm** : *k-means++*
    - **n_layers** : *4*
    - **n_units_l0** : *54*
    - **activation_l0** : *tanh*
    - **n_units_l1** : *22*
    - **activation_l1** : *sigmoid*
    - **n_units_l2** : *40*
    - **activation_l2** : *sigmoid*
    - **n_units_l3** : *30*
    - **activation_l3** : *tanh*
    - **last_activation** : *lambda*
    - **learning_rate** : *0.001952324510714249*
    - **epoch** : *510*
    - **optimizer** : *Adam*
    - **loss** : *huber_loss*
    - **batch_size** : *52*

WORST 3

- R2 score: **-2.32271669**
    - **seed** : *31*
    - **n_init** : *20*
    - **max_iter** : *100*
    - **n_components** : *11*
    - **gmm_seed** : *37*
    - **init_params_gmm** : *k-means++*
    - **n_layers** : *4*
    - **n_units_l0** : *28*
    - **activation_l0** : *tanh*
    - **n_units_l1** : *20*
    - **activation_l1** : *sigmoid*
    - **n_units_l2** : *34*
    - **activation_l2** : *sigmoid*
    - **n_units_l3** : *26*
    - **activation_l3** : *tanh*
    - **last_activation** : *lambda*
    - **learning_rate** : *0.003454947958915411*
    - **epoch** : *540*
    - **optimizer** : *Adam*
    - **loss** : *huber_loss*

    - **batch_size** : *52*

- R2 score: **-2.10625894**

    - **seed** : *42*
    - **n_init** : *10*
    - **max_iter** : *80*
    - **n_components** : *12*
    - **gmm_seed** : *56*
    - **init_params_gmm** : *k-means++*
    - **n_layers** : *4*
    - **n_units_l0** : *32*
    - **activation_l0** : *tanh*
    - **n_units_l1** : *18*
    - **activation_l1** : *sigmoid*
    - **n_units_l2** : *36*
    - **activation_l2** : *sigmoid*
    - **n_units_l3** : *14*
    - **activation_l3** : *tanh*
    - **last_activation** : *lambda*
    - **learning_rate** : *0.0026401467426089 52*
    - **epoch** : *540*
    - **optimizer** : *Adam*
    - **loss** : *huber_loss*
    - **batch_size** : *50*

- R2 score: **-1.13914786**

    - **seed** : *25*
    - **n_init** : *30*
    - **max_iter** : *80*
    - **n_components** : *12*
    - **gmm_seed** : *32*
    - **init_params_gmm** : *k-means++*
    - **n_layers** : *4*
    - **n_units_l0** : *54*
    - **activation_l0** : *tanh*
    - **n_units_l1** : *22*
    - **activation_l1** : *sigmoid*
    - **n_units_l2** : *40*
    - **activation_l2** : *sigmoid*
    - **n_units_l3** : *30*
    - **activation_l3** : *tanh*
    - **last_activation** : *lambda*
    - **learning_rate** : *0.0019523245107142 49*
    - **epoch** : *510*
    - **optimizer** : *Adam*
    - **loss** : *huber_loss*

- **batch_size** : *52*