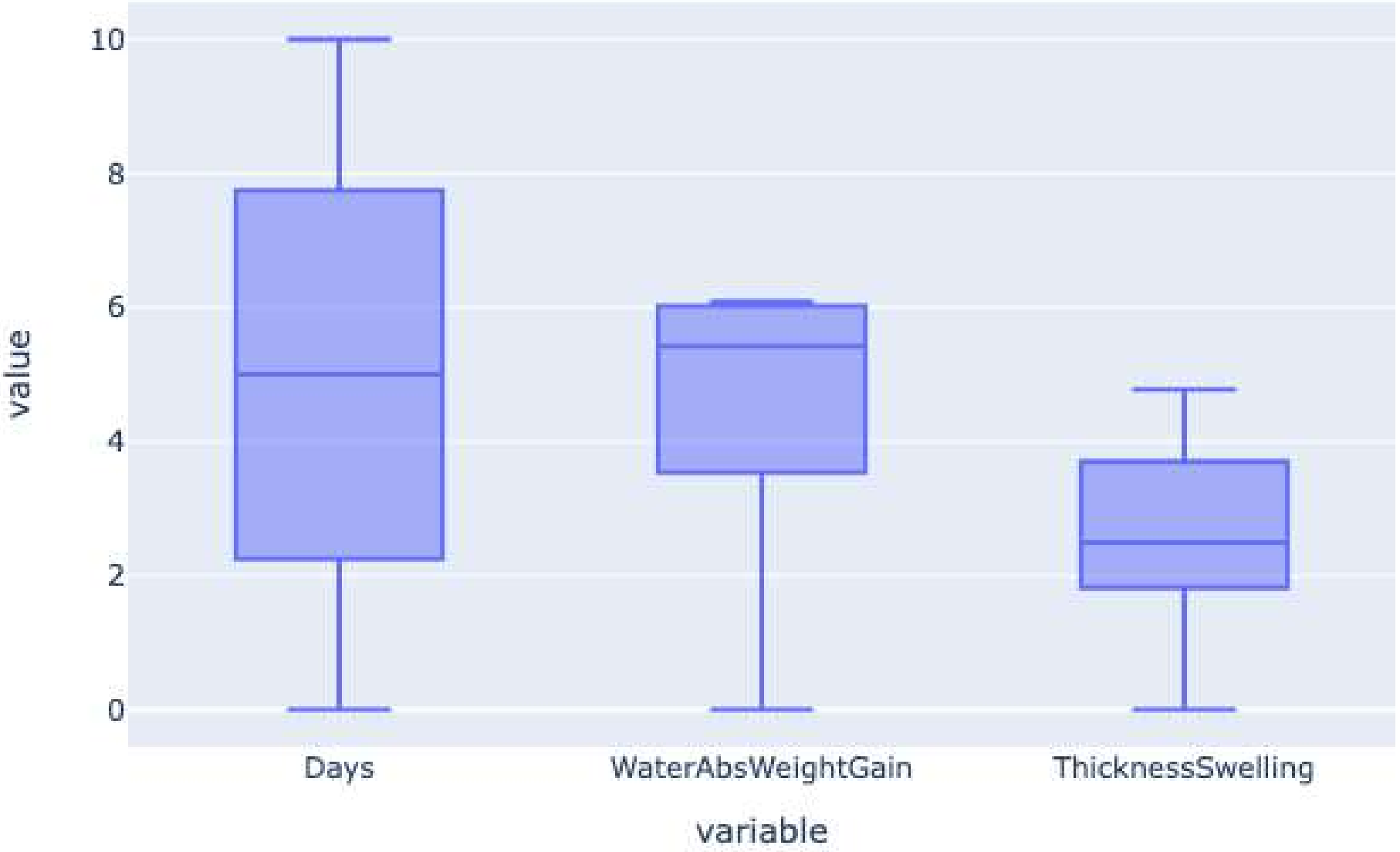
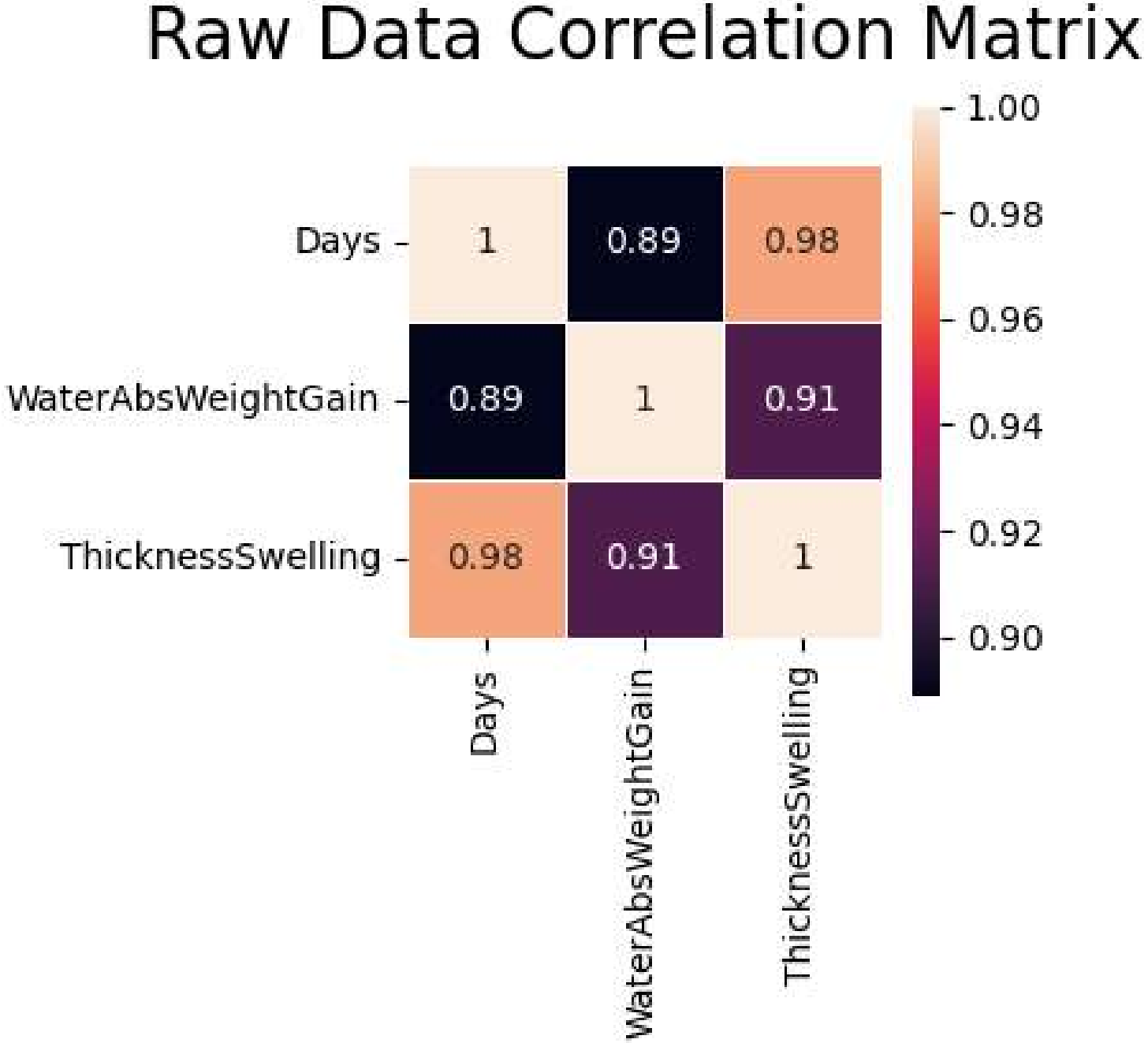
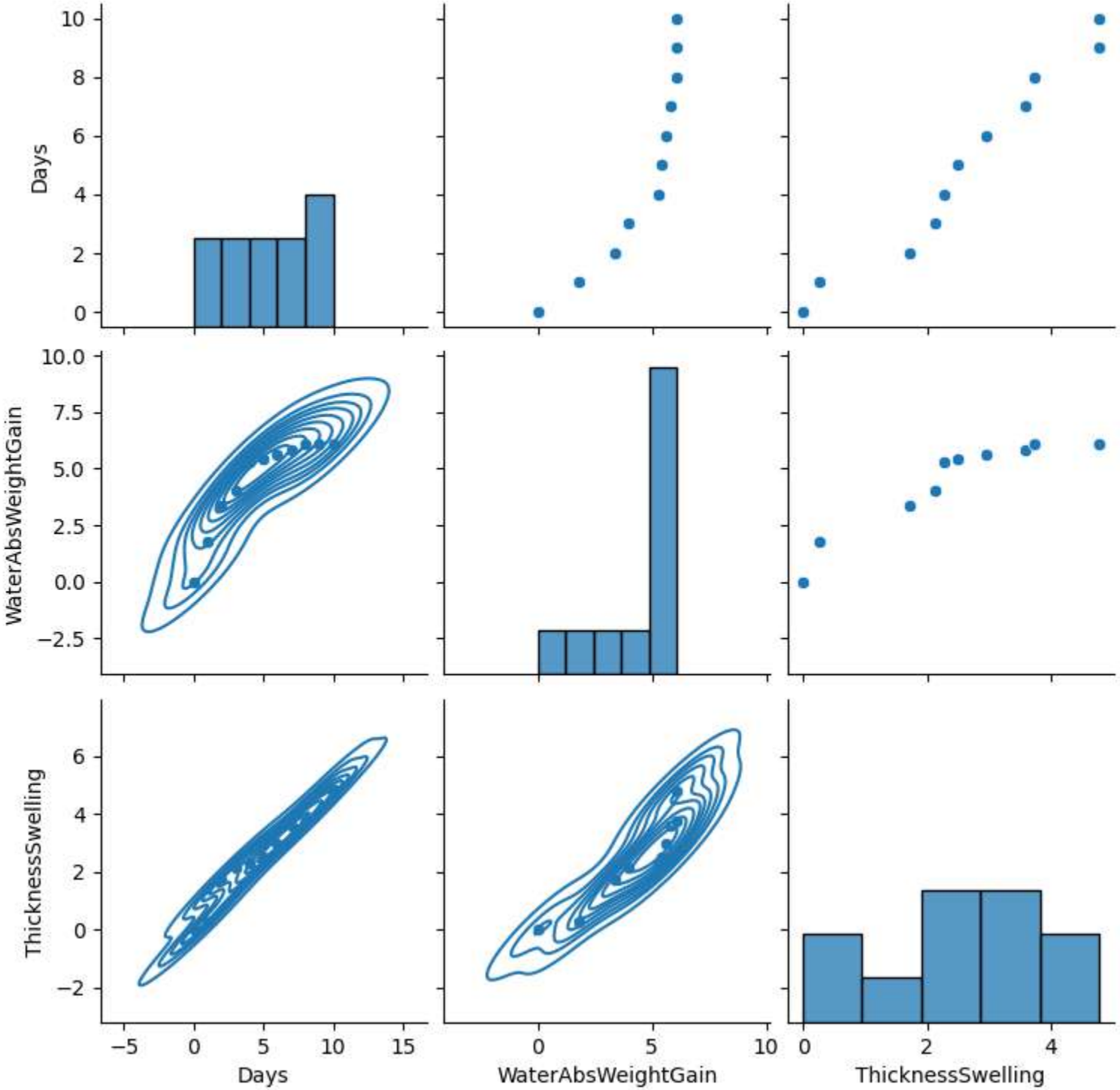
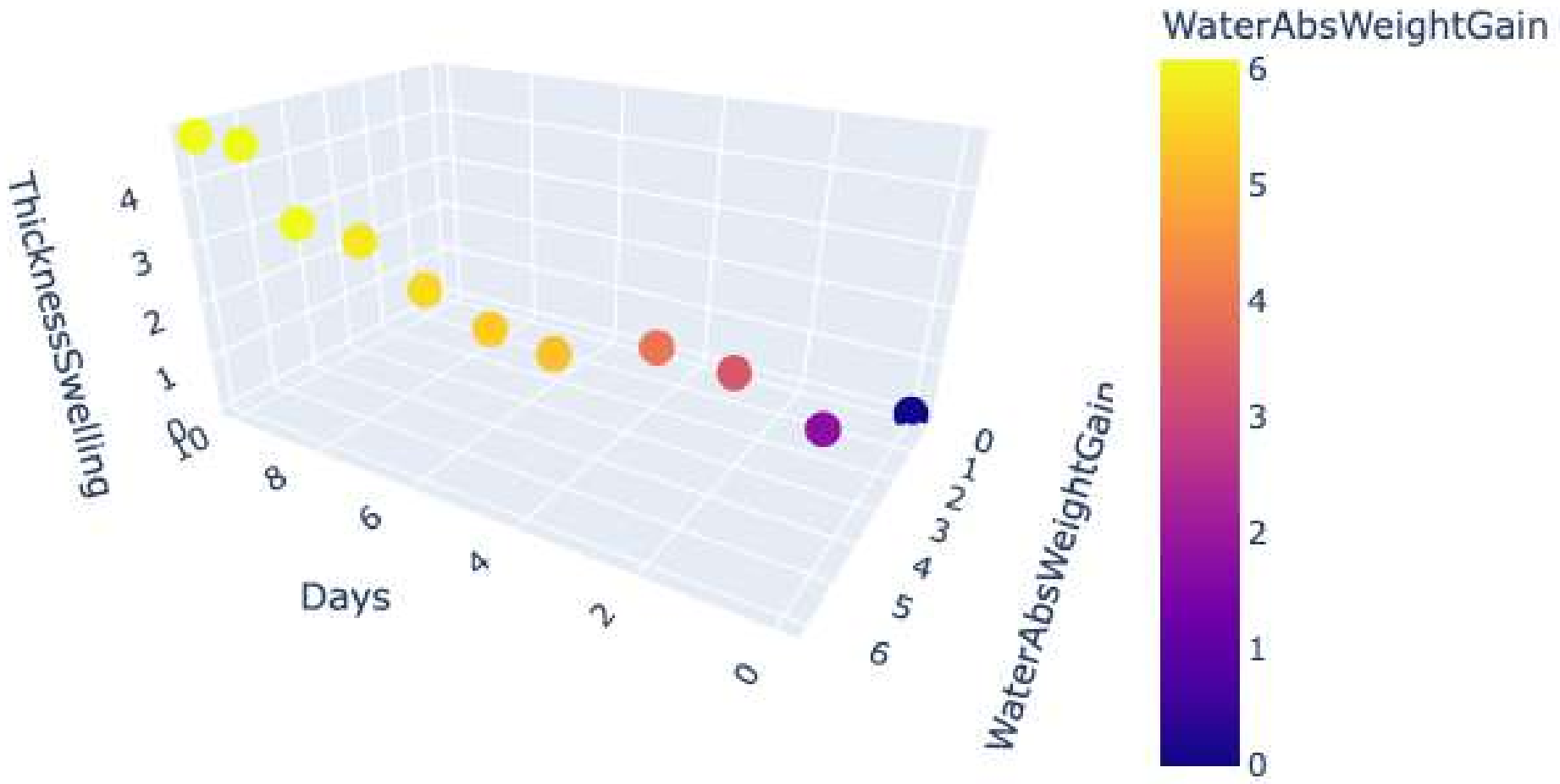
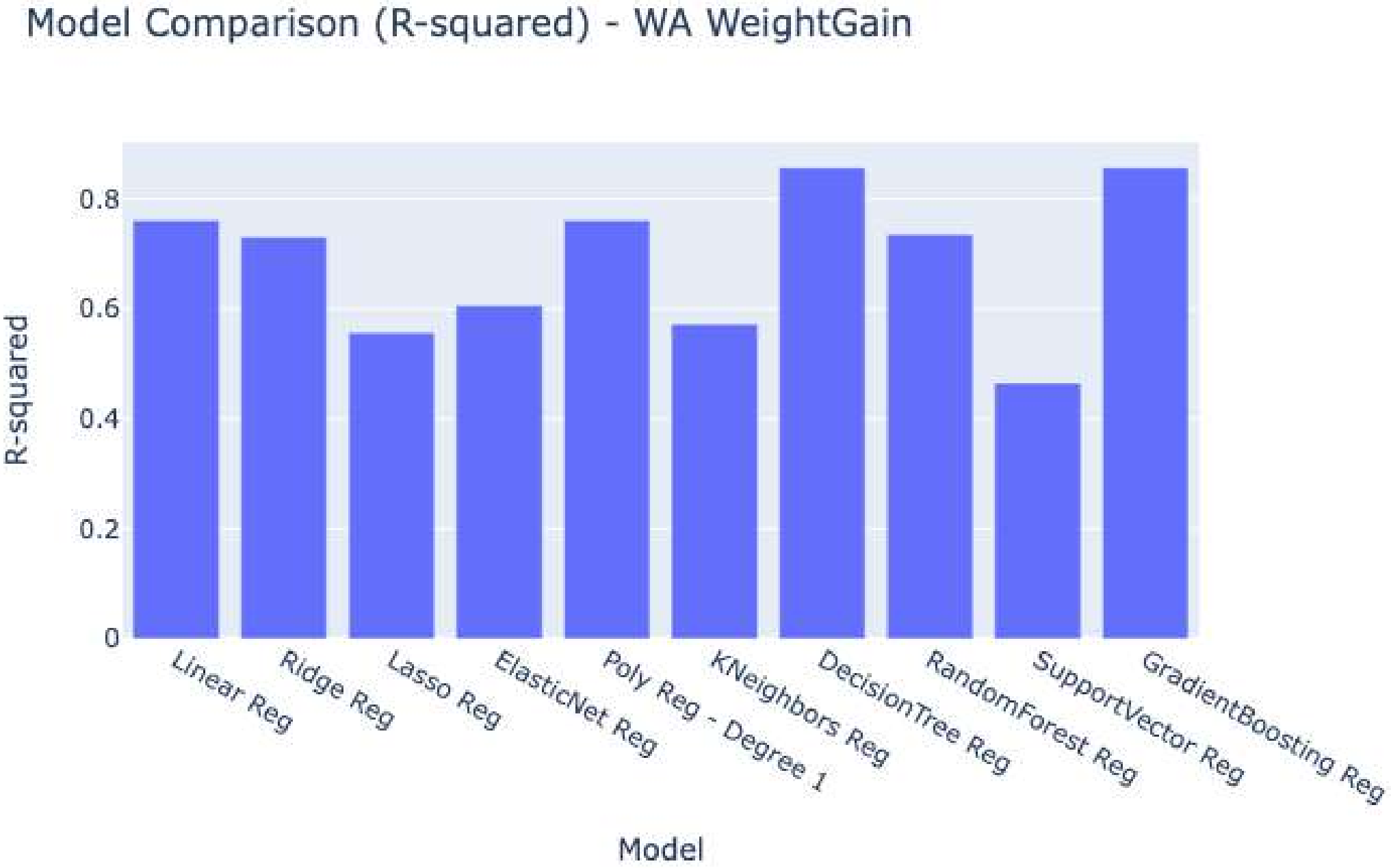

10
8
6
4
2
0
value
Days
WaterAbsWeightGain
ThicknessSwelling
variable


Raw Data Correlation Matrix
Days
WaterAbsWeightGain
ThicknessSwelling
1
0.89
0.98
0.89
1
0.91
0.98
0.91
1
Days
WaterAbsWeightGain
ThicknessSwelling
1.00
0.98
0.96
0.94
0.92
0.90

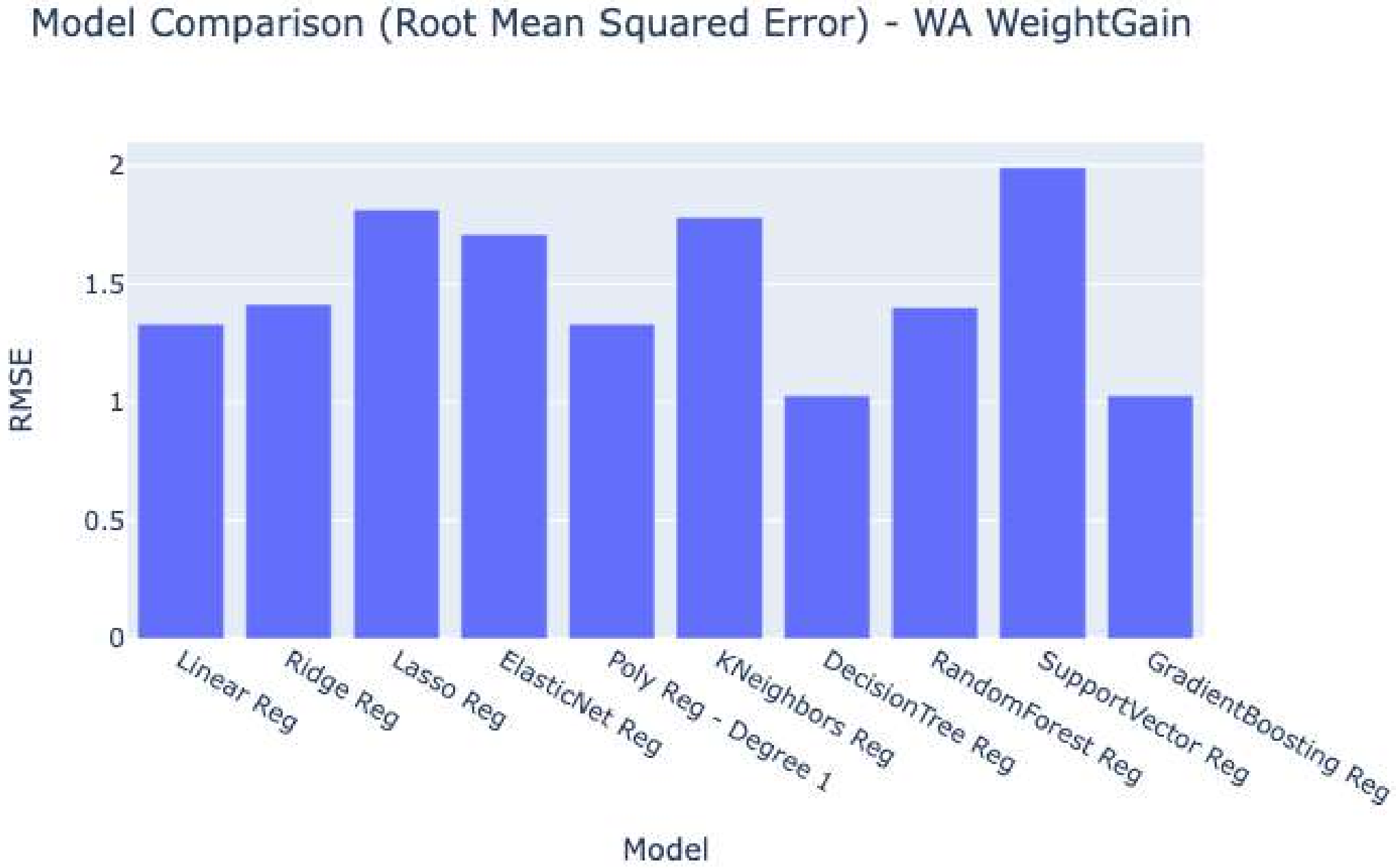

Days
WaterAbsWeightGain
ThicknessSwelling
Days
WaterAbsWeightGain
ThicknessSwelling


WaterAbsWeightGain
6
5
4
3
2
1
0
ThicknessSwelling
Days
WaterAbsWeightGain

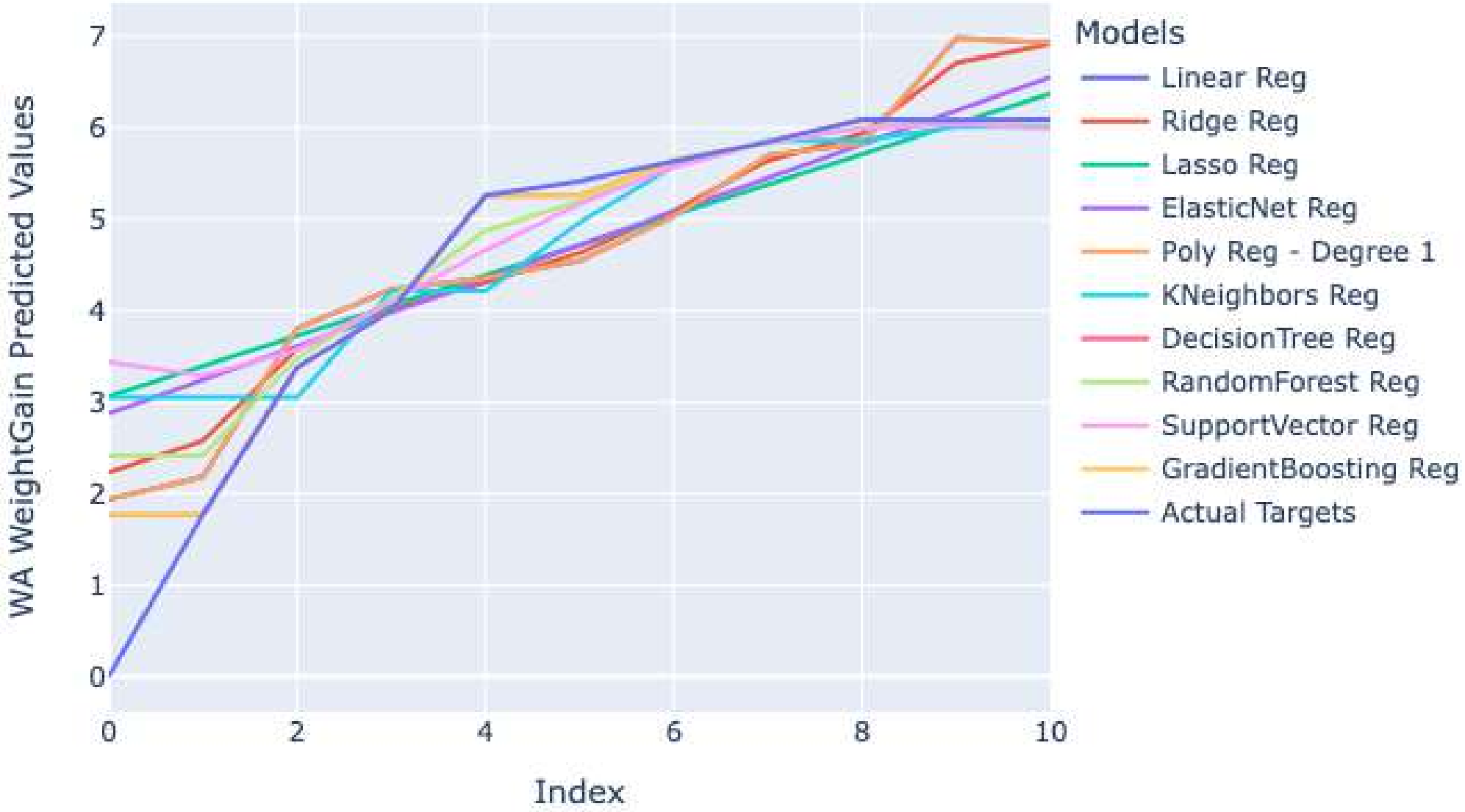
PolyReg Degree vs R-Squared Value
WA WeightGain Values
0
−2×10^21
−4×10^21
−6×10^21
0
10
20
30
40
Index

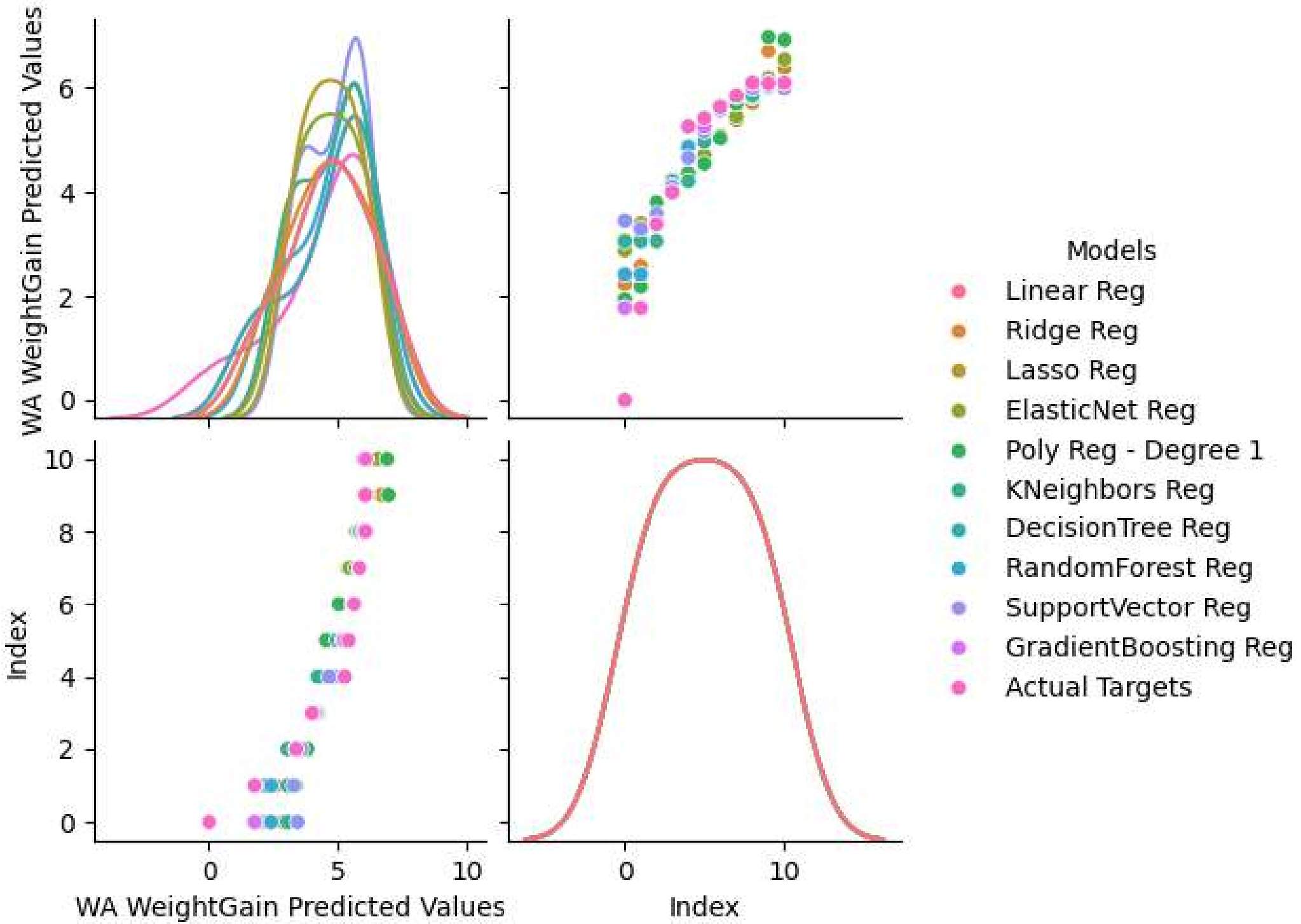

Model Comparison (R-squared) - WA WeightGain
R-squared
0.8
0.6
0.4
0.2
0
Linear Reg
Ridge Reg
Lasso Reg
ElasticNet Reg
Poly Reg - Degree 1
KNeighbors Reg
DecisionTree Reg
RandomForest Reg
SupportVector Reg
GradientBoosting Reg
Model

Model Comparison (Mean Squared Error) - WA WeightGain
MSE
0
1
2
3
4
Linear Reg
Ridge Reg
Lasso Reg
ElasticNet Reg
Poly Reg - Degree 1
KNeighbors Reg
DecisionTree Reg
RandomForest Reg
SupportVector Reg
GradientBoosting Reg
Model


Model Comparison (Root Mean Squared Error) - WA WeightGain
RMSE
2
1.5
1
0.5
0
Linear Reg
Ridge Reg
Lasso Reg
ElasticNet Reg
Poly Reg - Degree 1
KNeighbors Reg
DecisionTree Reg
RandomForest Reg
SupportVector Reg
GradientBoosting Reg
Model

Model Comparison (Mean Absolute Error) - WA WeightGain
MAE
1.2
1
0.8
0.6
0.4
0.2
0
Linear Reg
Ridge Reg
Lasso Reg
ElasticNet Reg
Poly Reg - Degree 1
KNeighbors Reg
DecisionTree Reg
RandomForest Reg
SupportVector Reg
GradientBoosting Reg
Model


WA WeightGain Predicted Values
Index
0
1
2
3
4
5
6
7
0
2
4
6
8
10
Models
Linear Reg
Ridge Reg
Lasso Reg
ElasticNet Reg
Poly Reg - Degree 1
KNeighbors Reg
DecisionTree Reg
RandomForest Reg
SupportVector Reg
GradientBoosting Reg
Actual Targets


WA WeightGain Predicted Values
Index
WA WeightGain Predicted Values
Index
Models
Linear Reg
Ridge Reg
Lasso Reg
ElasticNet Reg
Poly Reg - Degree 1
KNeighbors Reg
DecisionTree Reg
RandomForest Reg
SupportVector Reg
GradientBoosting Reg
Actual Targets