

Univariate Analysis

Hit Ratio Model

Univariate Report

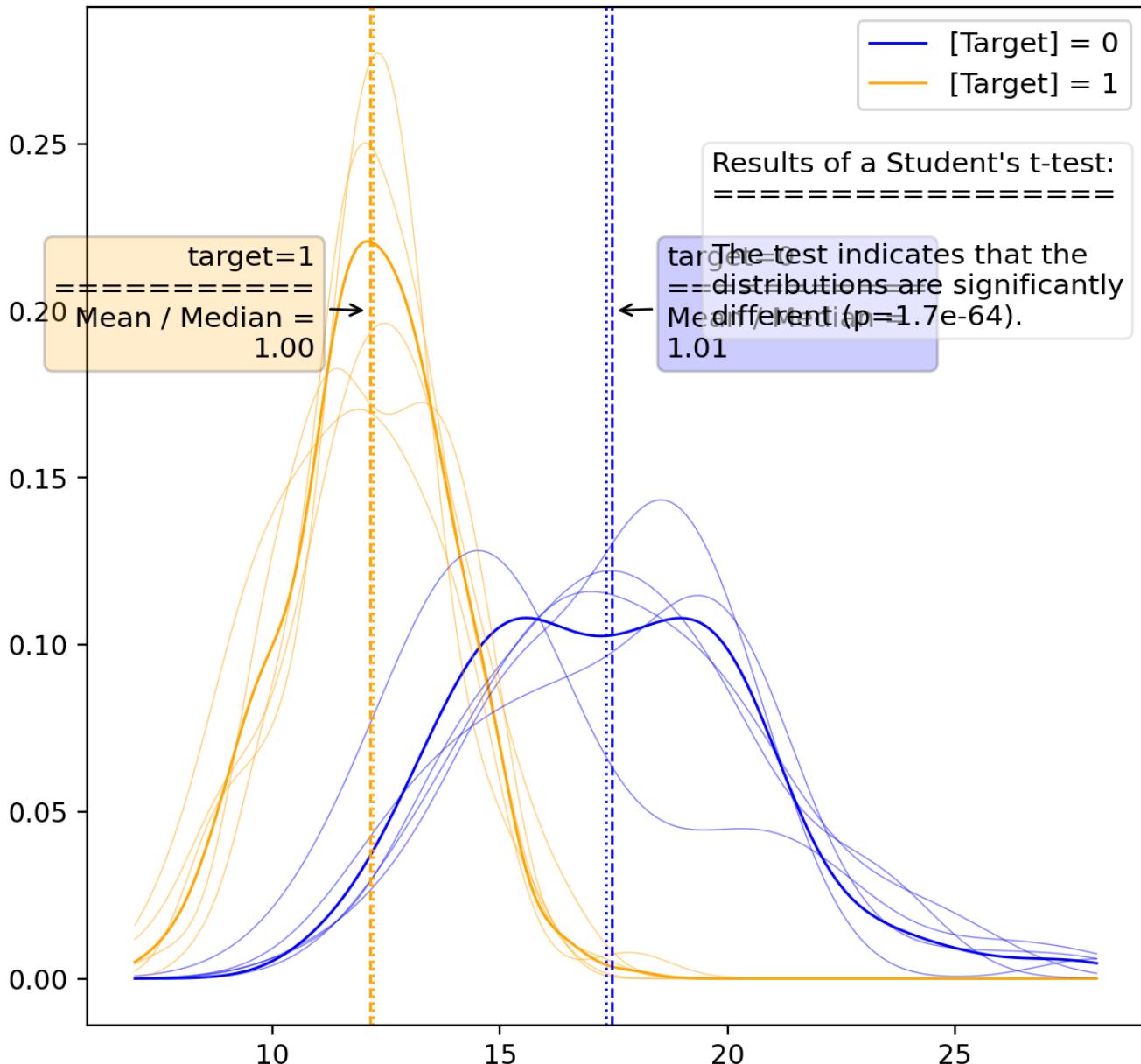
Mean Radius - Results

	Fold-1	Fold-2	Fold-3	Fold-4	Fold-5	Agg. Mean	Agg. SD
Fitted Coef.	9.5e-03	7.7e-03	1.4e-02	6.8e-03	1.4e-02	1.0e-02	3.4e-03
Fitted p-Value	0.145	0.226	0.040	0.287	0.027	0.074	0.114
Fitted Std. Err.	6.5e-03	6.4e-03	6.6e-03	6.4e-03	6.4e-03	5.8e-03	1.0e-04
Conf. Int. Lower	-3.3e-03	-4.8e-03	6.3e-04	-5.7e-03	1.6e-03	-1.0e-03	3.3e-03
Conf. Int. Upper	2.2e-02	2.0e-02	2.7e-02	1.9e-02	2.7e-02	2.2e-02	3.5e-03
Train Accuracy	62.4%	62.2%	63.9%	61.4%	63.8%	62.7%	1.1%
Val Accuracy	64.2%	64.9%	58.9%	68.2%	57.6%	62.7%	4.4%
Train AUC	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	0.0%
Val AUC	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	0.0%
Train F1	76.8%	76.7%	77.9%	76.1%	77.9%	77.1%	0.8%
Test F1	78.2%	78.7%	74.1%	81.1%	73.1%	77.1%	3.3%
Train Precision	62.4%	62.2%	63.9%	61.4%	63.8%	62.7%	1.1%
Val Precision	64.2%	64.9%	58.9%	68.2%	57.6%	62.7%	4.4%
Train Recall	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	0.0%
Val Recall	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	0.0%
Train MCC	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Val MCC	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Train Log-Loss	13.57	13.61	13.02	13.90	13.04	13.43	0.38
Val Log-Loss	12.92	12.66	14.81	11.47	15.29	13.43	1.59

Univariate Report

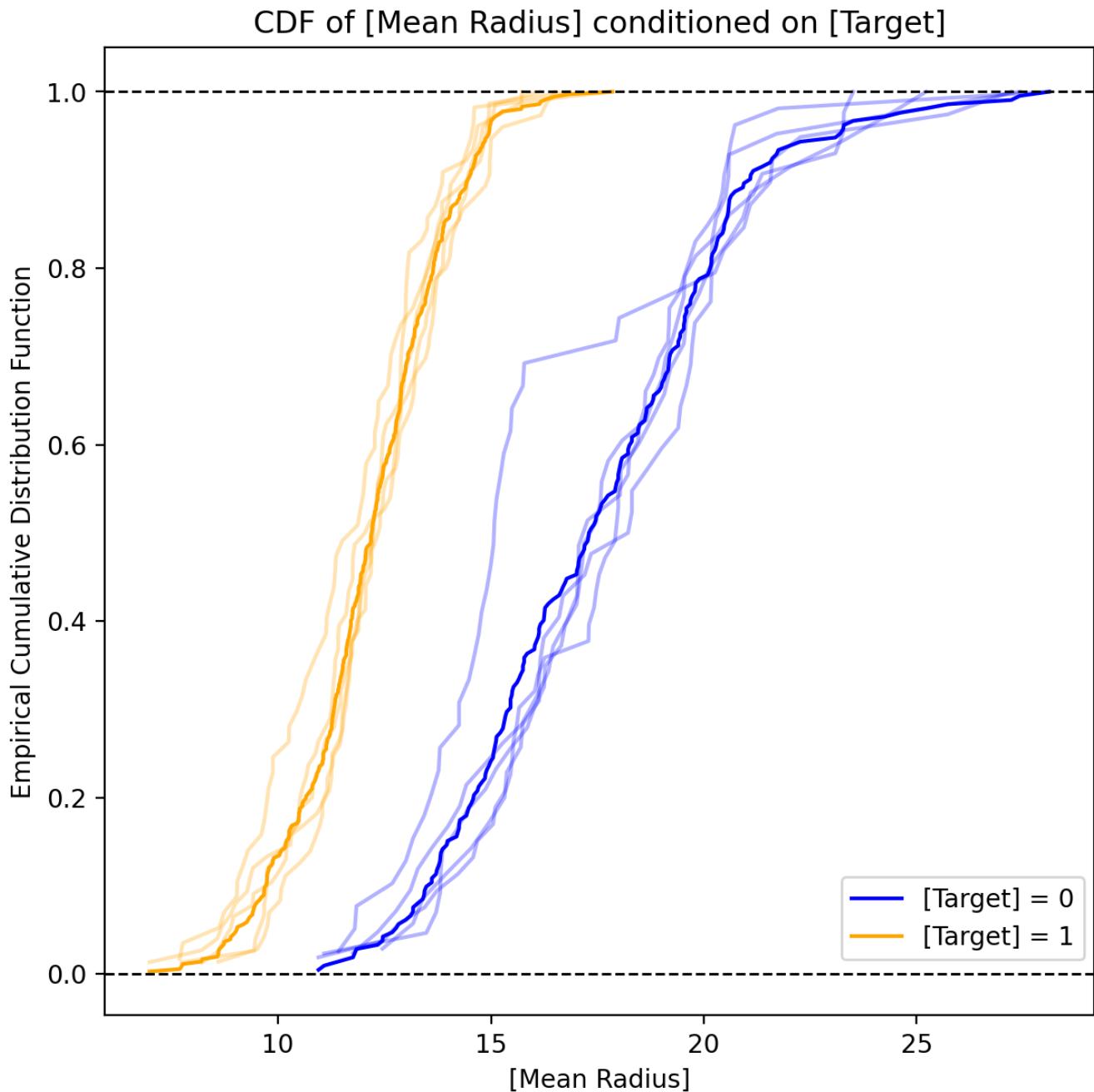
Mean Radius - Kernel Density Plot

Density Plot of [[Mean Radius]] by [[Target]]
Distributions by level are significantly different at the 95% level.



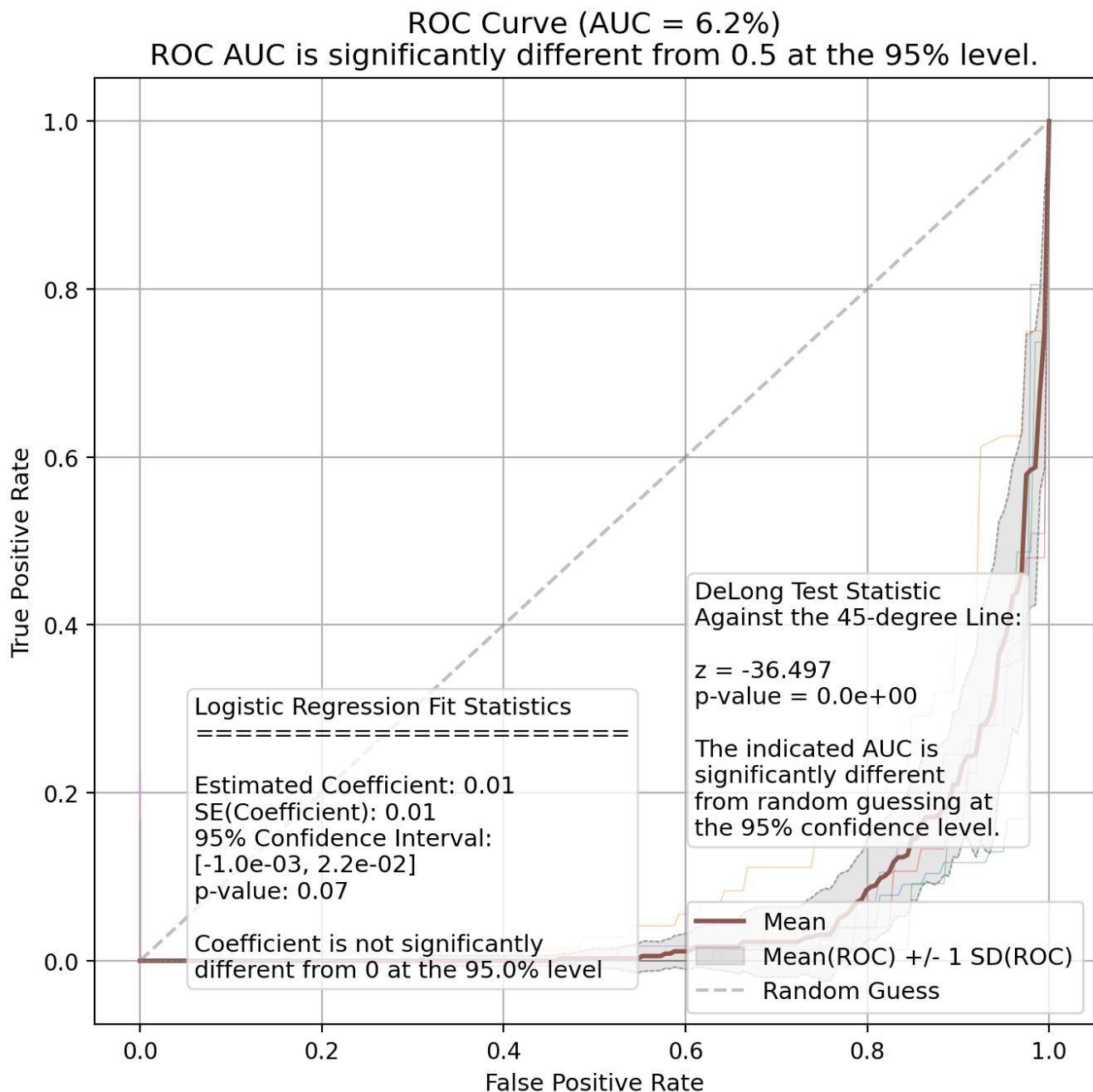
Univariate Report

Mean Radius - Empirical CDF Plot



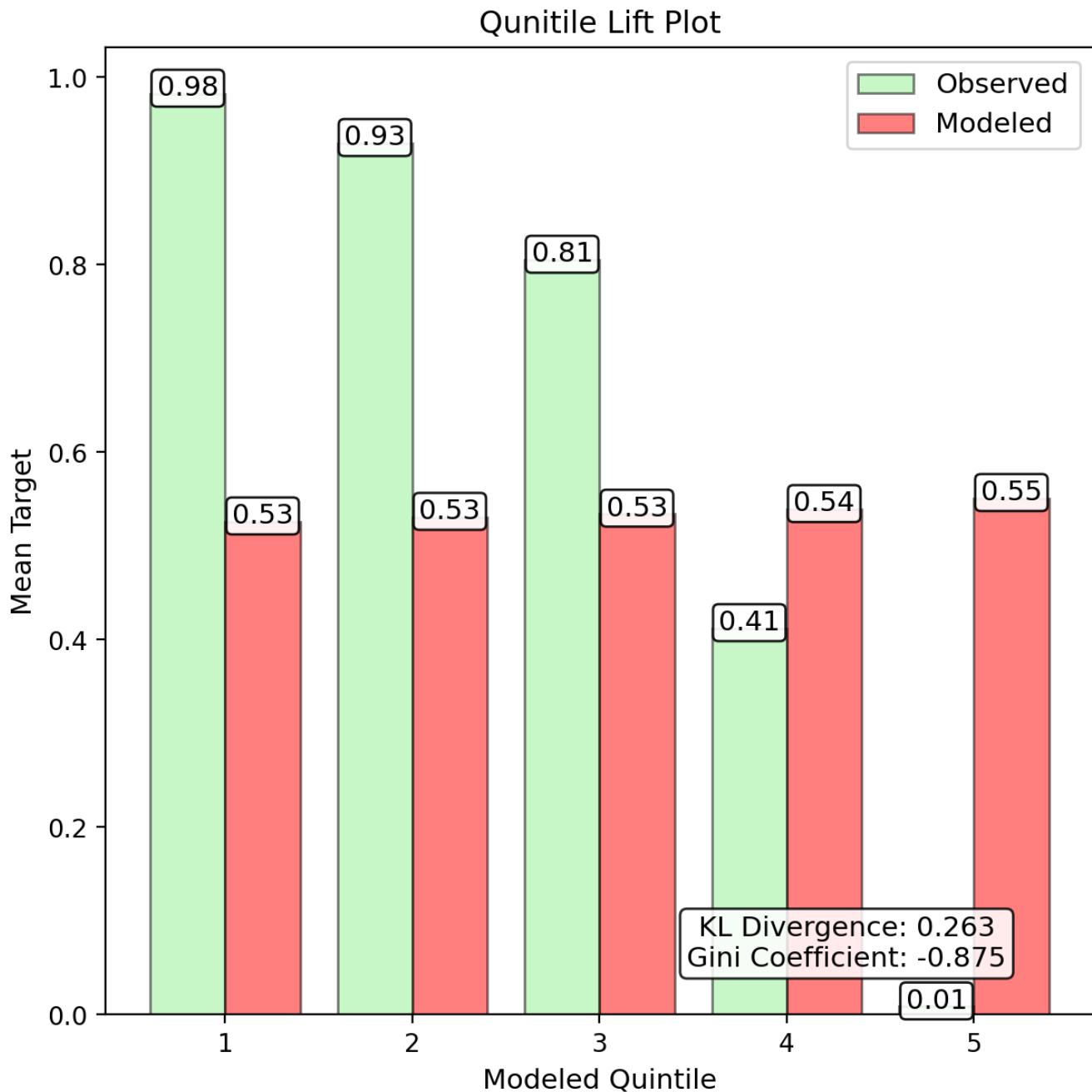
Univariate Report

Mean Radius - ROC Curve



Univariate Report

Mean Radius - Quintile Lift



Univariate Report

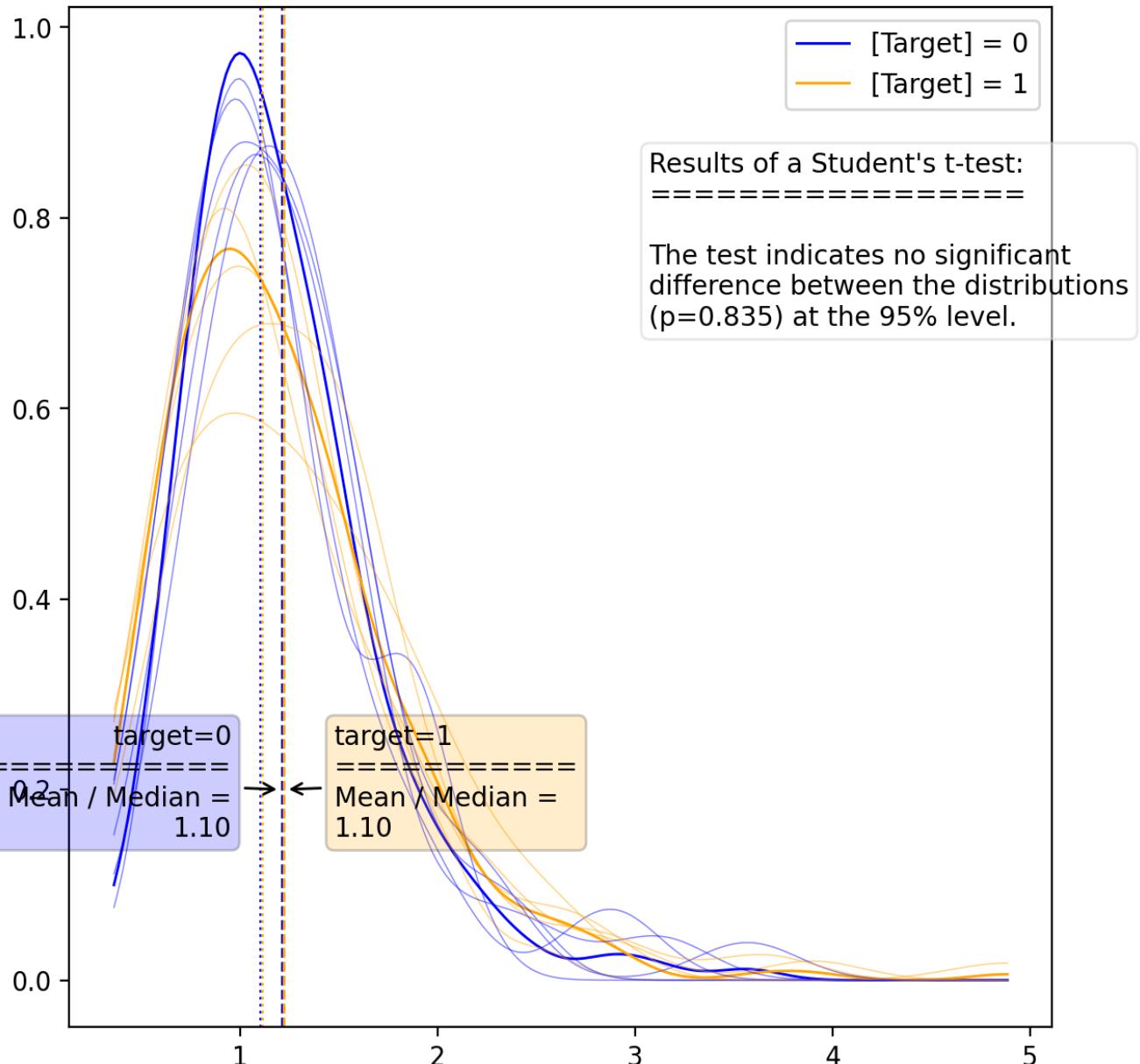
Texture Error - Results

	Fold-1	Fold-2	Fold-3	Fold-4	Fold-5	Agg. Mean	Agg. SD
Fitted Coef.	0.342	0.364	0.389	0.330	0.372	0.359	0.024
Fitted p-Value	4.0e-06	7.6e-07	4.4e-07	6.3e-06	4.3e-07	6.5e-08	2.6e-06
Fitted Std. Err.	7.4e-02	7.4e-02	7.7e-02	7.3e-02	7.4e-02	6.6e-02	1.6e-03
Conf. Int. Lower	0.197	0.220	0.238	0.187	0.228	0.229	0.021
Conf. Int. Upper	0.488	0.509	0.540	0.473	0.516	0.489	0.026
Train Accuracy	62.4%	62.2%	63.9%	61.4%	63.8%	62.7%	1.1%
Val Accuracy	64.2%	64.9%	58.9%	68.2%	57.6%	62.7%	4.4%
Train AUC	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	0.0%
Val AUC	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	0.0%
Train F1	76.8%	76.7%	77.9%	76.1%	77.9%	77.1%	0.8%
Test F1	78.2%	78.7%	74.1%	81.1%	73.1%	77.1%	3.3%
Train Precision	62.4%	62.2%	63.9%	61.4%	63.8%	62.7%	1.1%
Val Precision	64.2%	64.9%	58.9%	68.2%	57.6%	62.7%	4.4%
Train Recall	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	0.0%
Val Recall	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	0.0%
Train MCC	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Val MCC	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Train Log-Loss	13.57	13.61	13.02	13.90	13.04	13.43	0.38
Val Log-Loss	12.92	12.66	14.81	11.47	15.29	13.43	1.59

Univariate Report

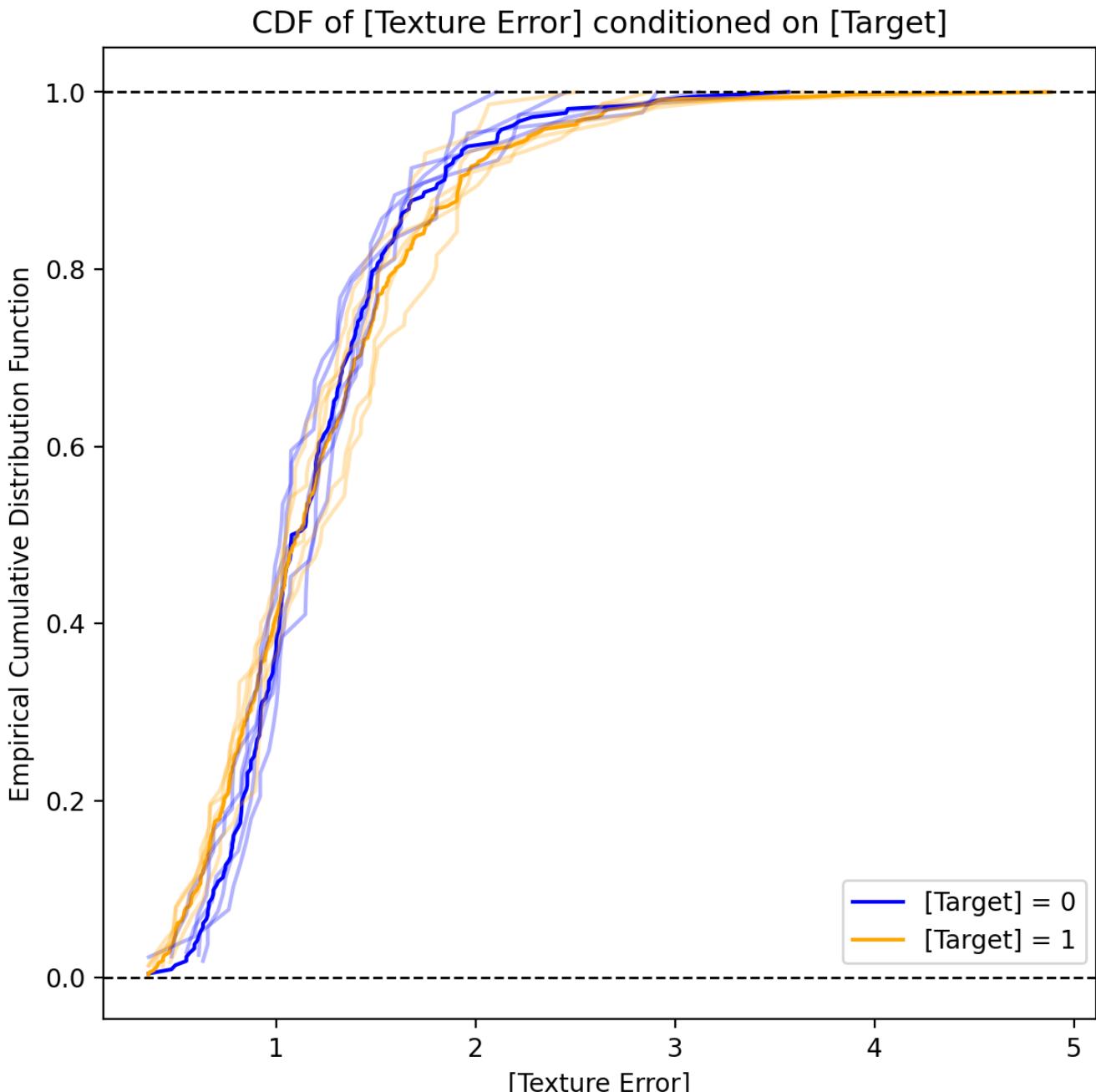
Texture Error - Kernel Density Plot

Density Plot of [[Texture Error]] by [[Target]]
Distributions by level are not significantly different at the 95% level.



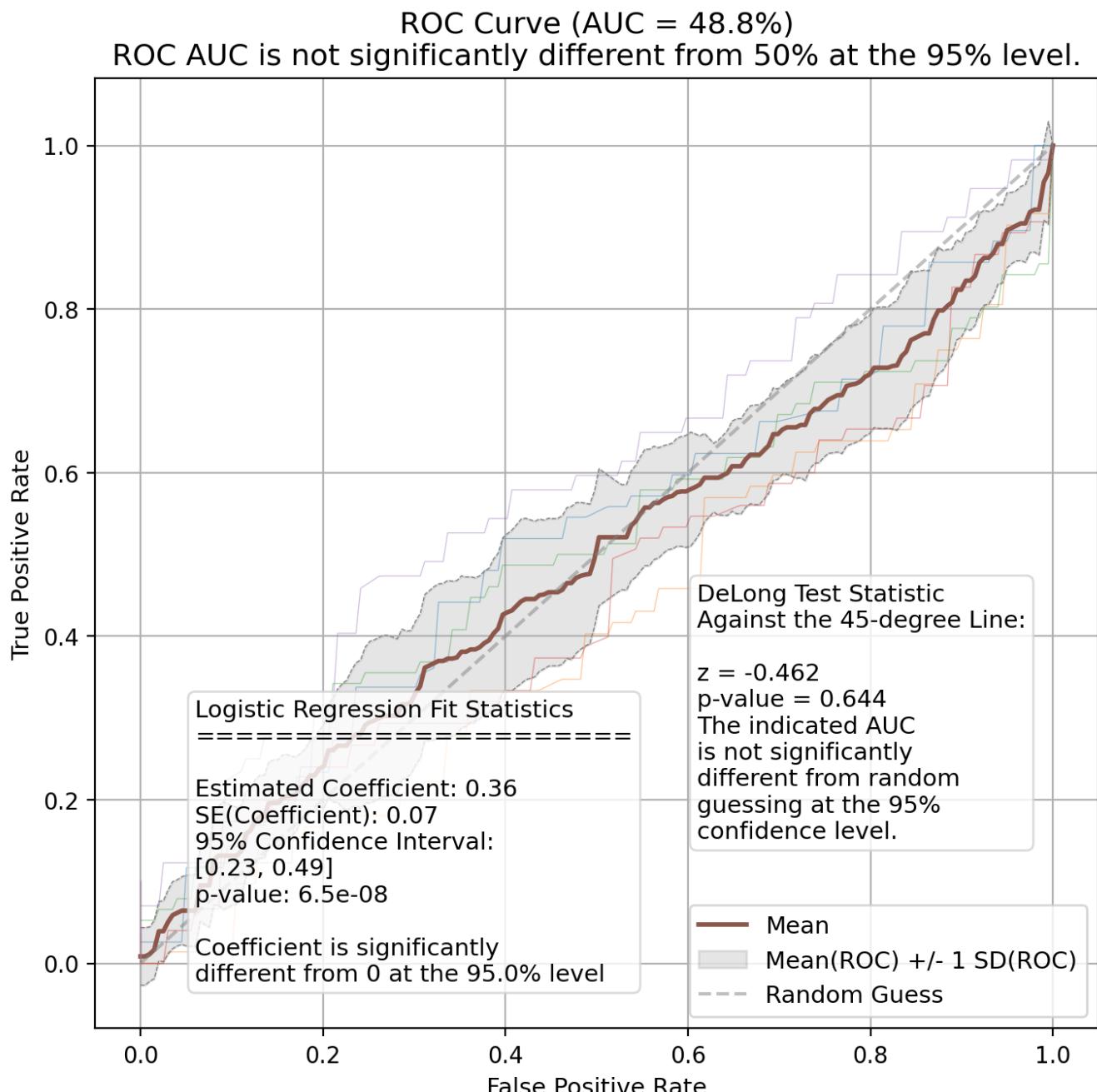
Univariate Report

Texture Error - Empirical CDF Plot



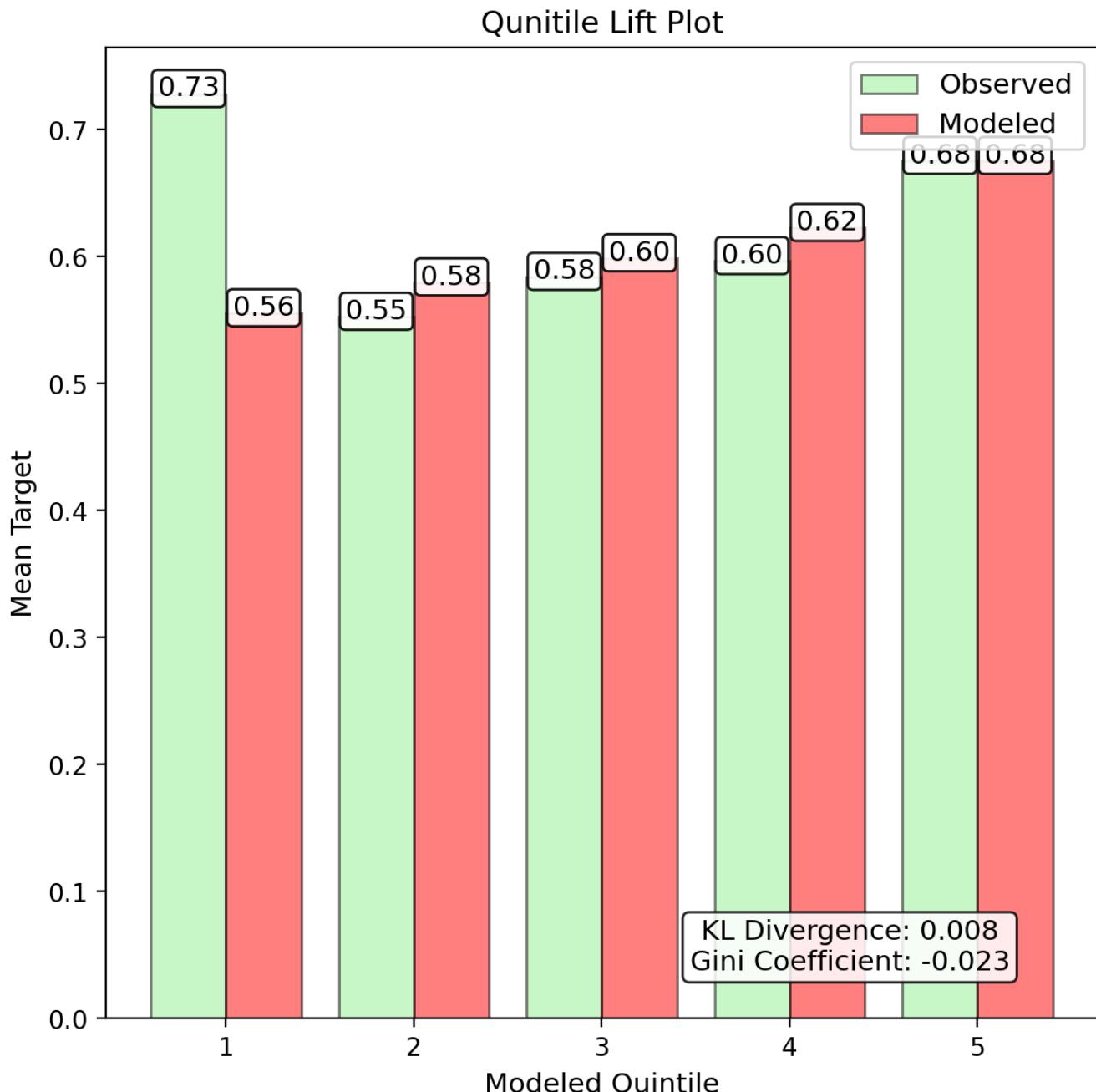
Univariate Report

Texture Error - ROC Curve



Univariate Report

Texture Error - Quintile Lift



Univariate Report

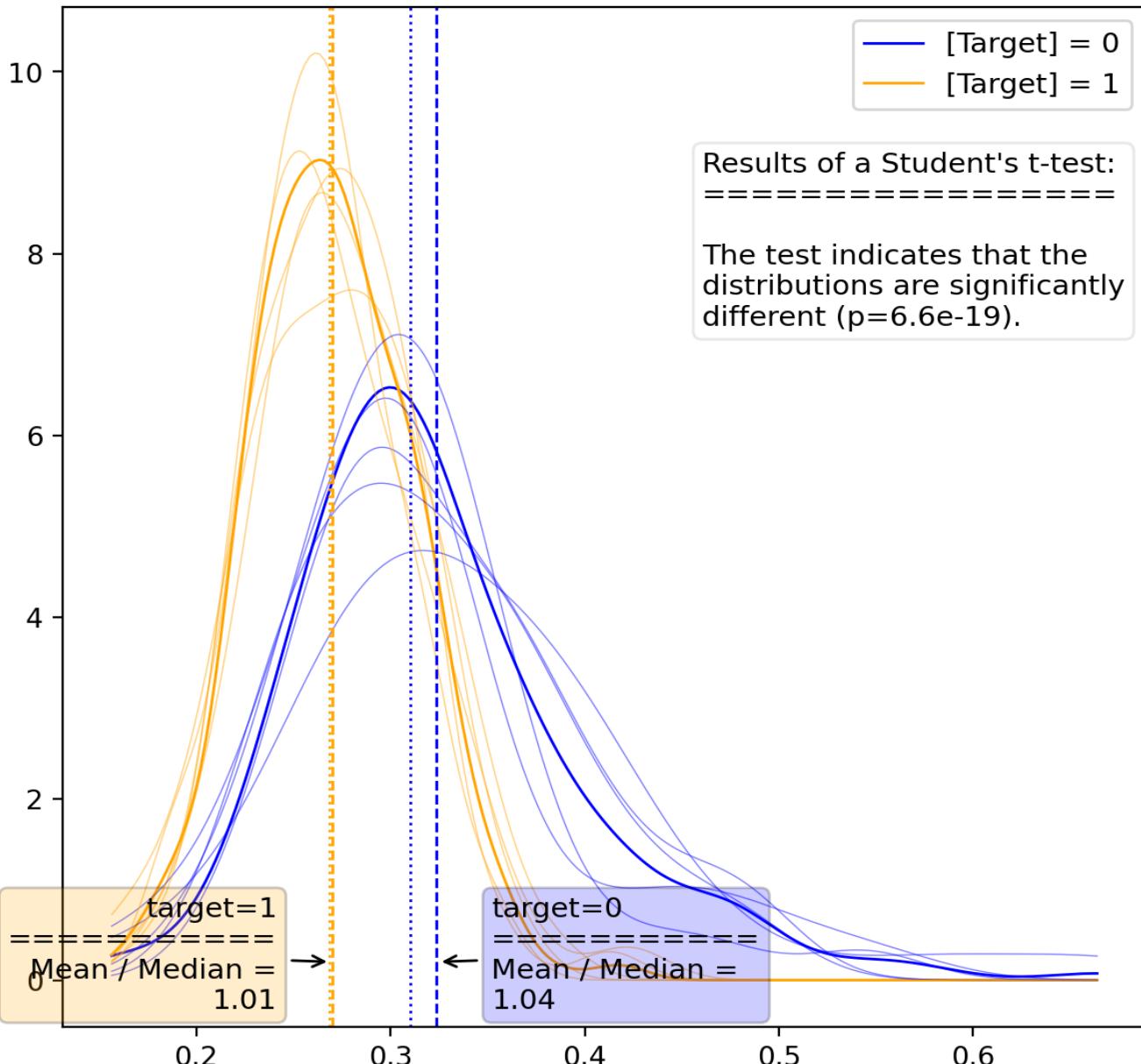
Worst Symmetry - Results

	Fold-1	Fold-2	Fold-3	Fold-4	Fold-5	Agg. Mean	Agg. SD
Fitted Coef.	1.07	1.07	1.24	0.92	1.22	1.10	0.13
Fitted p-Value	9.0e-04	9.3e-04	1.4e-04	3.8e-03	1.2e-04	1.2e-04	1.5e-03
Fitted Std. Err.	0.323	0.323	0.327	0.317	0.317	0.287	0.004
Conf. Int. Lower	0.440	0.436	0.603	0.297	0.600	0.541	0.129
Conf. Int. Upper	1.71	1.70	1.88	1.54	1.84	1.67	0.14
Train Accuracy	62.4%	62.2%	63.9%	61.4%	63.8%	62.7%	1.1%
Val Accuracy	64.2%	64.9%	58.9%	68.2%	57.6%	62.7%	4.4%
Train AUC	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	0.0%
Val AUC	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	0.0%
Train F1	76.8%	76.7%	77.9%	76.1%	77.9%	77.1%	0.8%
Test F1	78.2%	78.7%	74.1%	81.1%	73.1%	77.1%	3.3%
Train Precision	62.4%	62.2%	63.9%	61.4%	63.8%	62.7%	1.1%
Val Precision	64.2%	64.9%	58.9%	68.2%	57.6%	62.7%	4.4%
Train Recall	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	0.0%
Val Recall	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	0.0%
Train MCC	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Val MCC	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Train Log-Loss	13.57	13.61	13.02	13.90	13.04	13.43	0.38
Val Log-Loss	12.92	12.66	14.81	11.47	15.29	13.43	1.59

Univariate Report

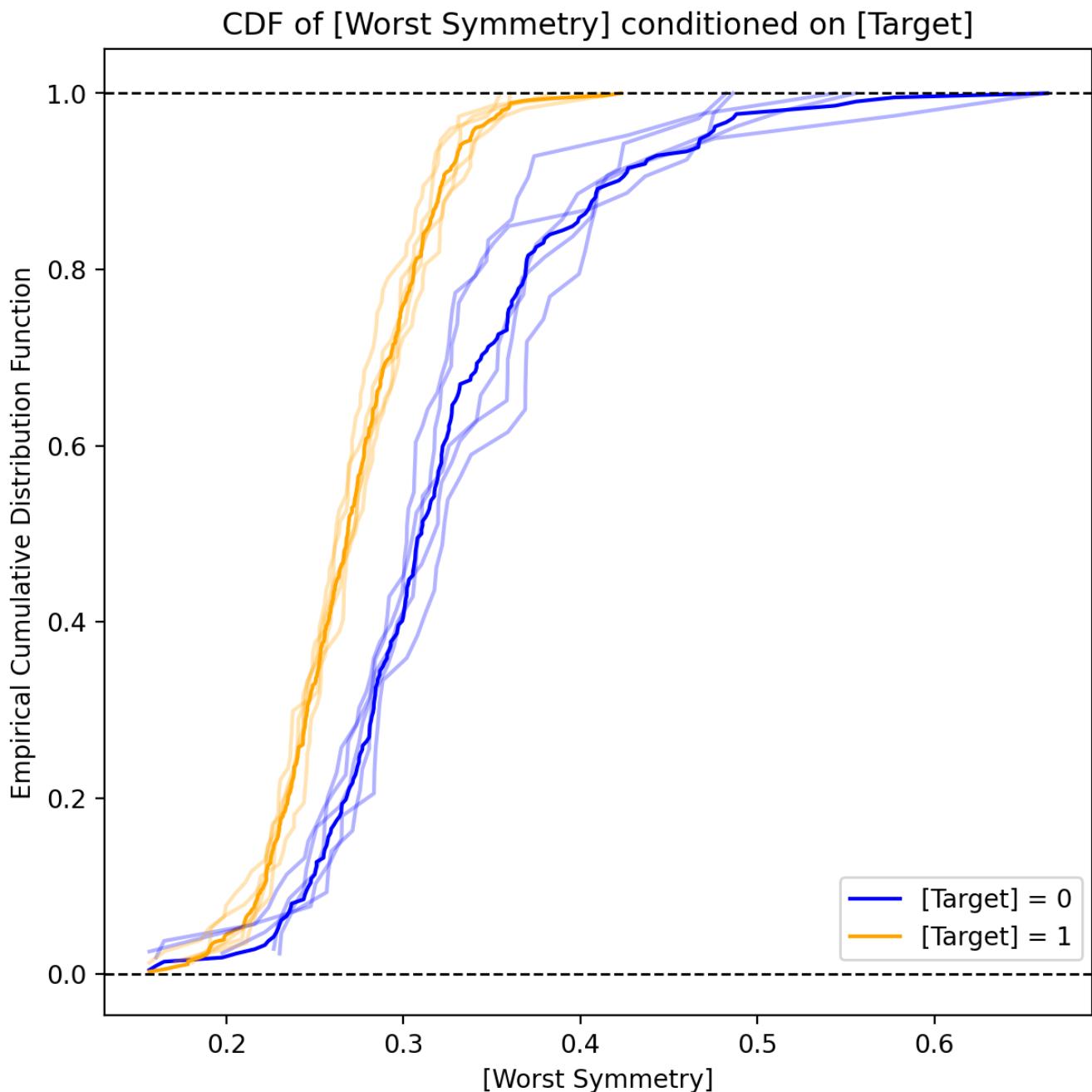
Worst Symmetry - Kernel Density Plot

Density Plot of [[Worst Symmetry]] by [[Target]]
Distributions by level are significantly different at the 95% level.



Univariate Report

Worst Symmetry - Empirical CDF Plot

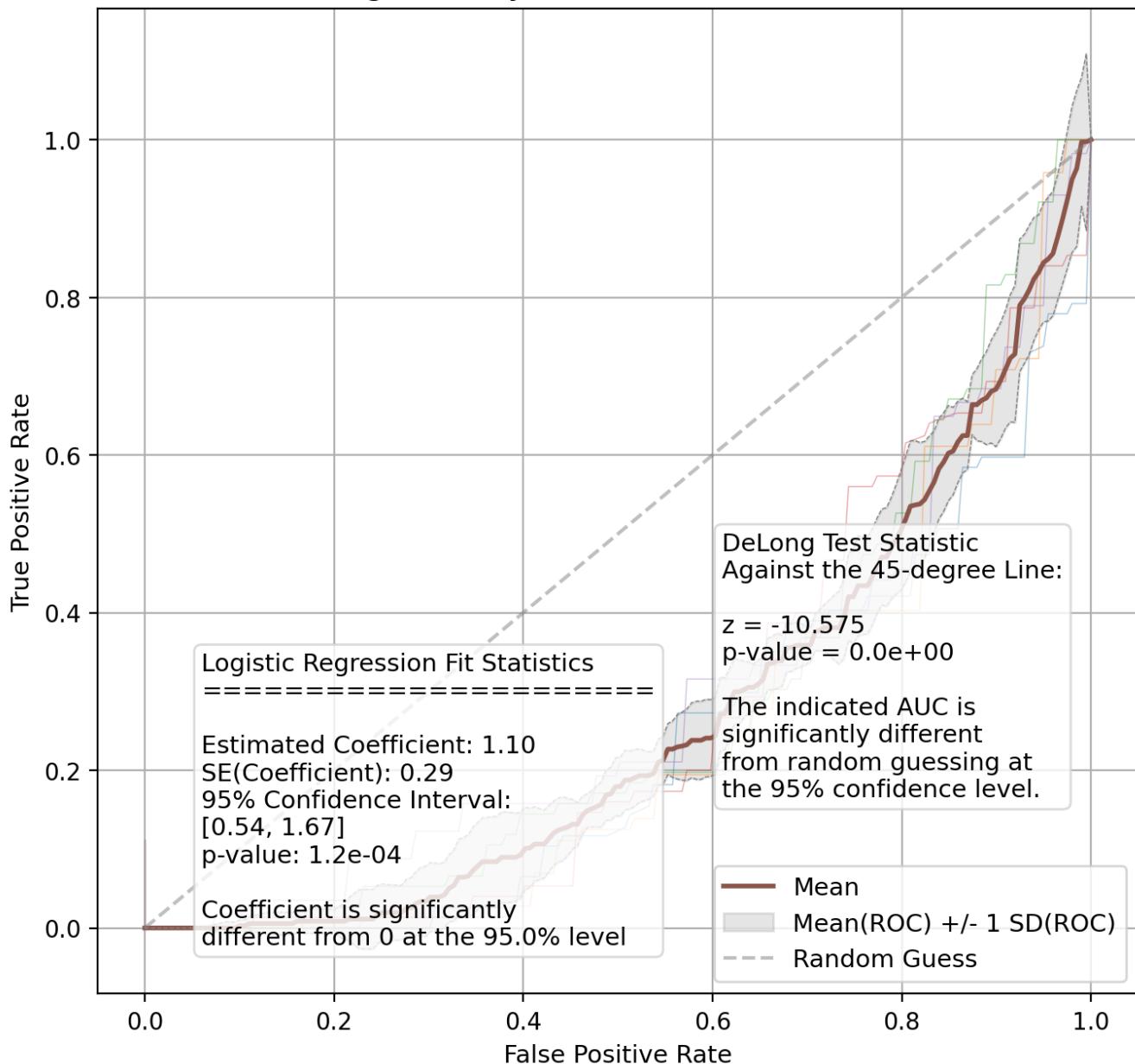


Univariate Report

Worst Symmetry - ROC Curve

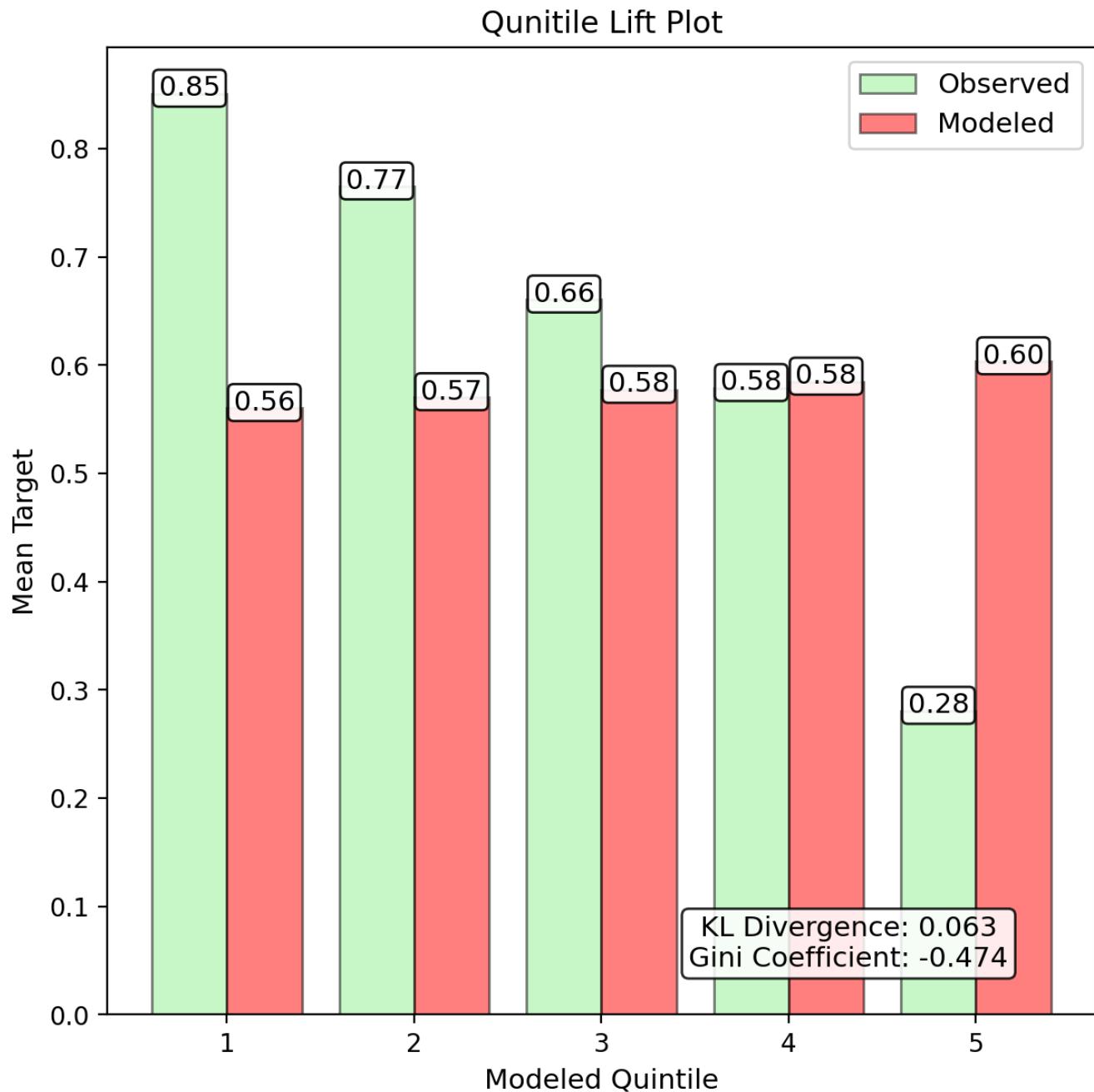
ROC Curve (AUC = 26.3%)

ROC AUC is significantly different from 0.5 at the 95% level.



Univariate Report

Worst Symmetry - Quintile Lift



Univariate Report

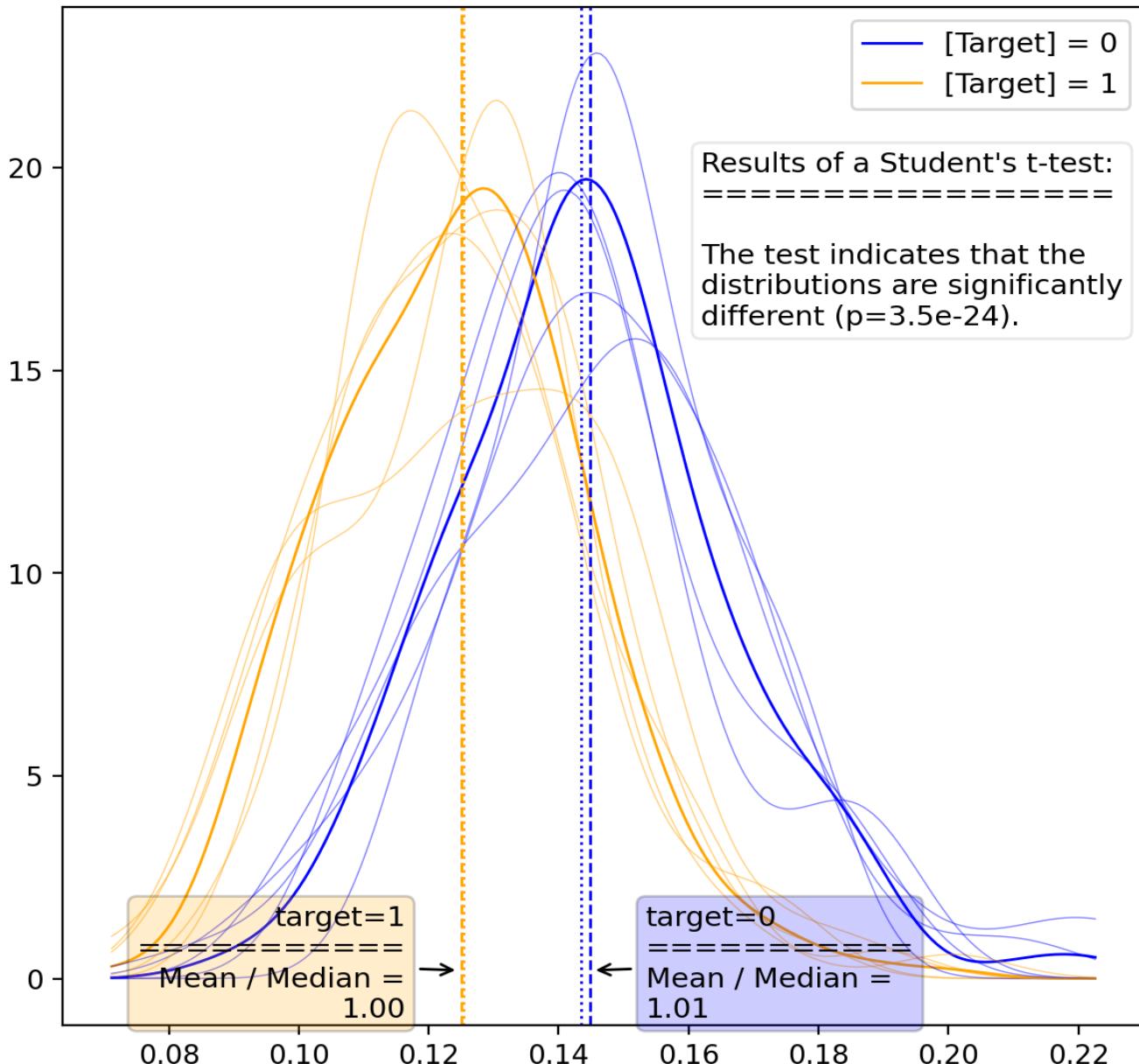
Worst Smoothness - Results

	Fold-1	Fold-2	Fold-3	Fold-4	Fold-5	Agg. Mean	Agg. SD
Fitted Coef.	2.65	2.52	2.99	2.30	2.97	2.69	0.30
Fitted p-Value	2.1e-04	3.7e-04	3.6e-05	1.1e-03	2.3e-05	2.4e-05	4.4e-04
Fitted Std. Err.	0.715	0.708	0.725	0.704	0.703	0.636	0.009
Conf. Int. Lower	1.25	1.13	1.57	0.92	1.60	1.44	0.29
Conf. Int. Upper	4.05	3.91	4.41	3.68	4.35	3.93	0.31
Train Accuracy	62.4%	62.2%	63.9%	61.4%	63.8%	62.7%	1.1%
Val Accuracy	64.2%	64.9%	58.9%	68.2%	57.6%	62.7%	4.4%
Train AUC	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	0.0%
Val AUC	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	0.0%
Train F1	76.8%	76.7%	77.9%	76.1%	77.9%	77.1%	0.8%
Test F1	78.2%	78.7%	74.1%	81.1%	73.1%	77.1%	3.3%
Train Precision	62.4%	62.2%	63.9%	61.4%	63.8%	62.7%	1.1%
Val Precision	64.2%	64.9%	58.9%	68.2%	57.6%	62.7%	4.4%
Train Recall	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	0.0%
Val Recall	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	0.0%
Train MCC	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Val MCC	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Train Log-Loss	13.57	13.61	13.02	13.90	13.04	13.43	0.38
Val Log-Loss	12.92	12.66	14.81	11.47	15.29	13.43	1.59

Univariate Report

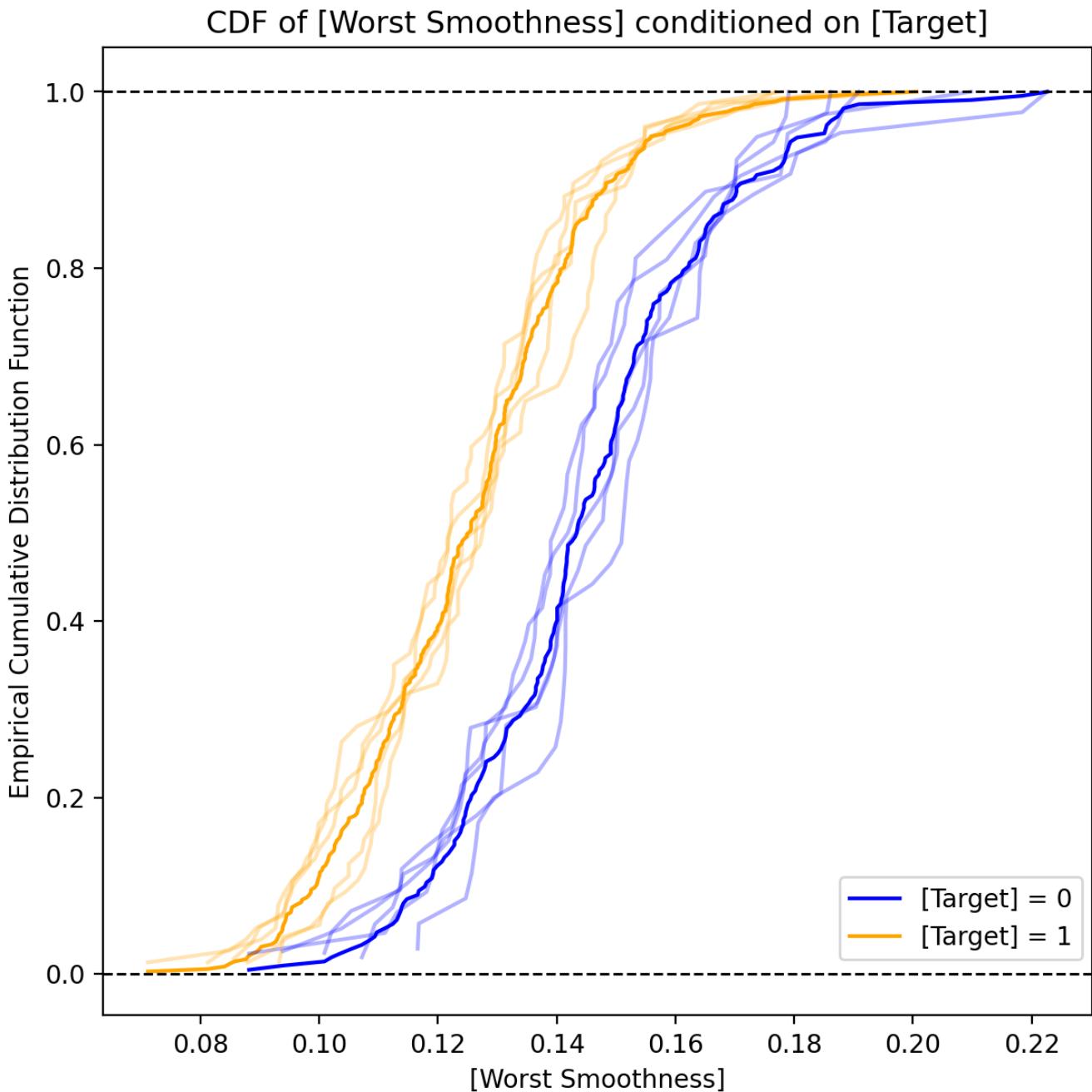
Worst Smoothness - Kernel Density Plot

Density Plot of [[Worst Smoothness]] by [[Target]]
Distributions by level are significantly different at the 95% level.



Univariate Report

Worst Smoothness - Empirical CDF Plot

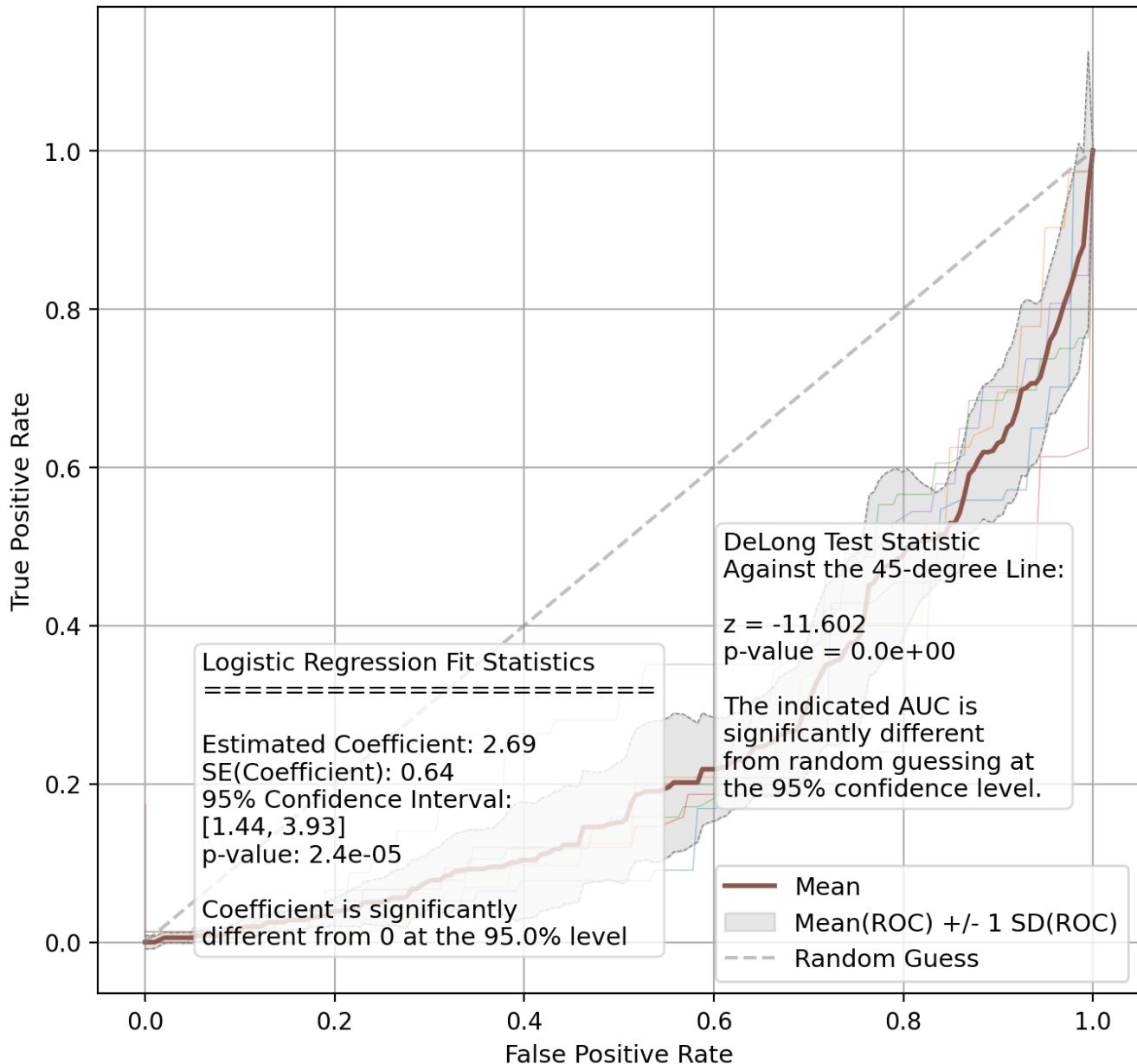


Univariate Report

Worst Smoothness - ROC Curve

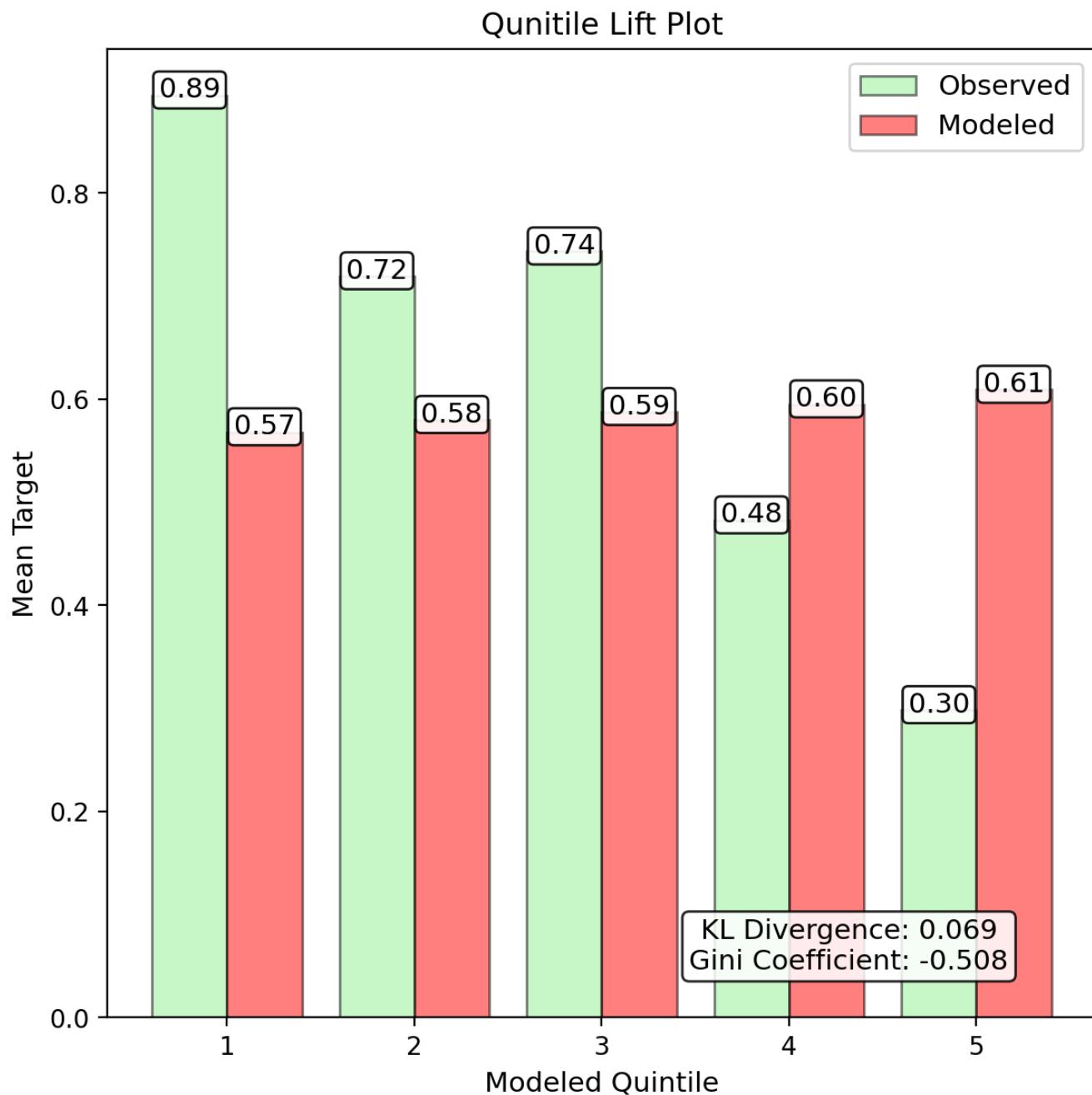
ROC Curve (AUC = 24.6%)

ROC AUC is significantly different from 0.5 at the 95% level.



Univariate Report

Worst Smoothness - Quintile Lift



Univariate Report

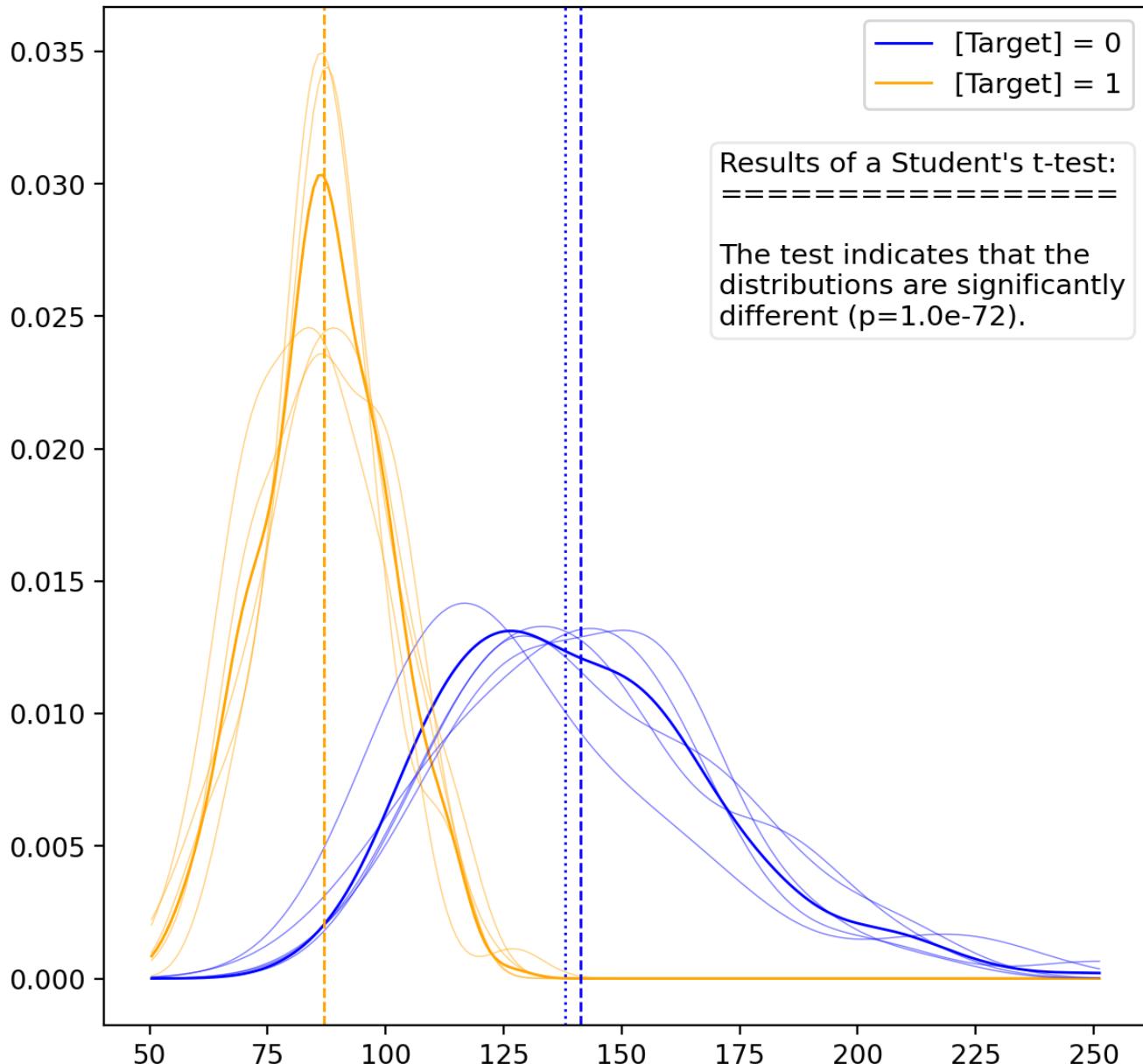
Worst Perimeter - Results

	Fold-1	Fold-2	Fold-3	Fold-4	Fold-5	Agg. Mean	Agg. SD
Fitted Coef.	2.0e-04	-3.0e-05	7.1e-04	-1.4e-04	7.6e-04	3.0e-04	4.2e-04
Fitted p-Value	0.808	0.971	0.406	0.868	0.357	0.690	0.281
Fitted Std. Err.	8.4e-04	8.3e-04	8.6e-04	8.3e-04	8.2e-04	7.5e-04	1.3e-05
Conf. Int. Lower	-1.4e-03	-1.6e-03	-9.7e-04	-1.8e-03	-8.6e-04	-1.2e-03	4.0e-04
Conf. Int. Upper	1.8e-03	1.6e-03	2.4e-03	1.5e-03	2.4e-03	1.8e-03	4.3e-04
Train Accuracy	62.4%	37.8%	63.9%	38.6%	63.8%	62.7%	13.8%
Val Accuracy	64.2%	35.1%	58.9%	31.8%	57.6%	62.7%	14.9%
Train AUC	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	0.0%
Val AUC	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	0.0%
Train F1	76.8%	0.0%	77.9%	0.0%	77.9%	77.1%	42.5%
Test F1	78.2%	0.0%	74.1%	0.0%	73.1%	77.1%	41.2%
Train Precision	62.4%	0.0%	63.9%	0.0%	63.8%	62.7%	34.7%
Val Precision	64.2%	0.0%	58.9%	0.0%	57.6%	62.7%	33.1%
Train Recall	100.0%	0.0%	100.0%	0.0%	100.0%	100.0%	54.8%
Val Recall	100.0%	0.0%	100.0%	0.0%	100.0%	100.0%	54.8%
Train MCC	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Val MCC	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Train Log-Loss	13.57	22.43	13.02	22.14	13.04	13.43	4.98
Val Log-Loss	12.92	23.38	14.81	24.58	15.29	13.43	5.37

Univariate Report

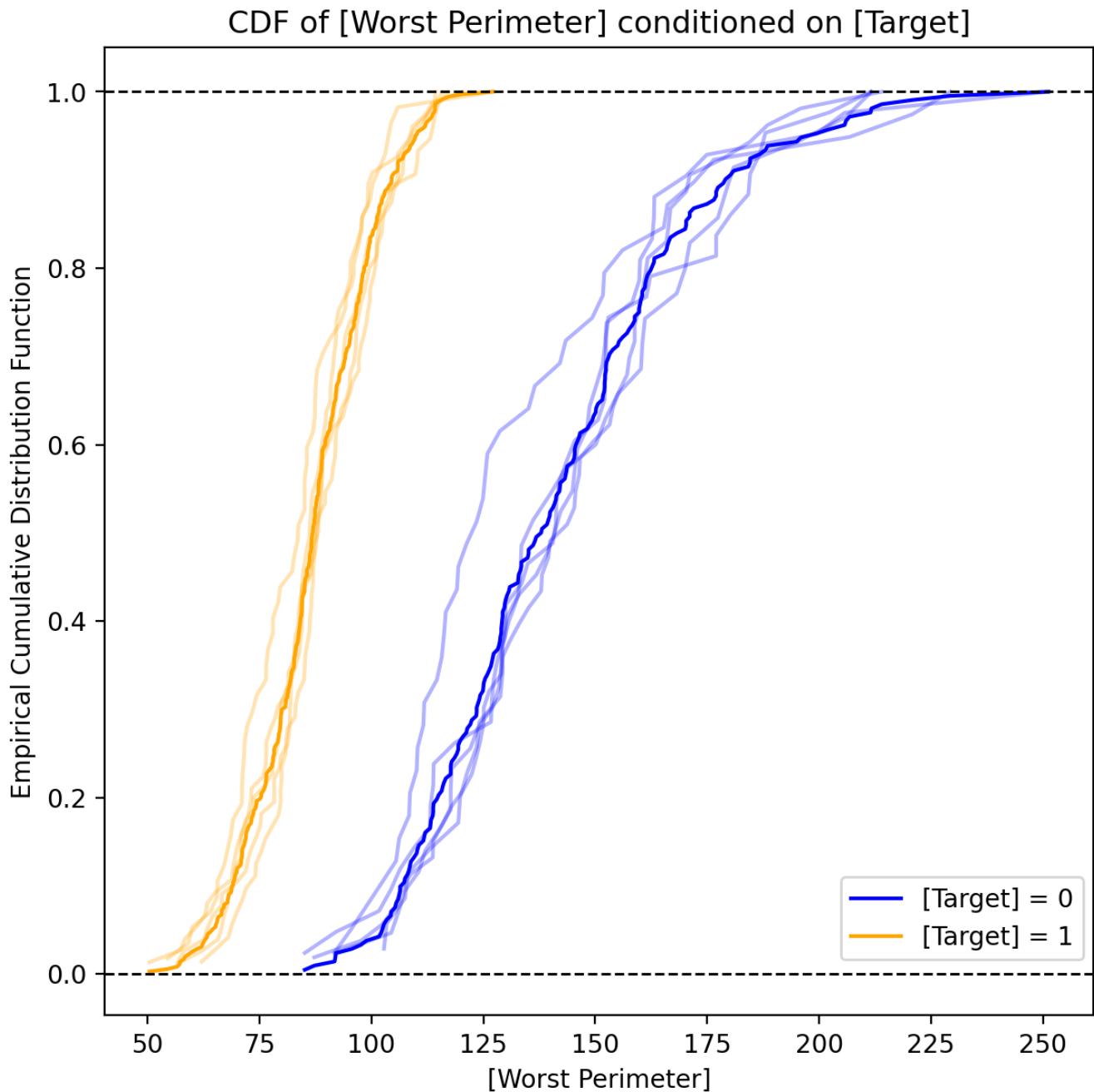
Worst Perimeter - Kernel Density Plot

Density Plot of [[Worst Perimeter]] by [[Target]]
Distributions by level are significantly different at the 95% level.



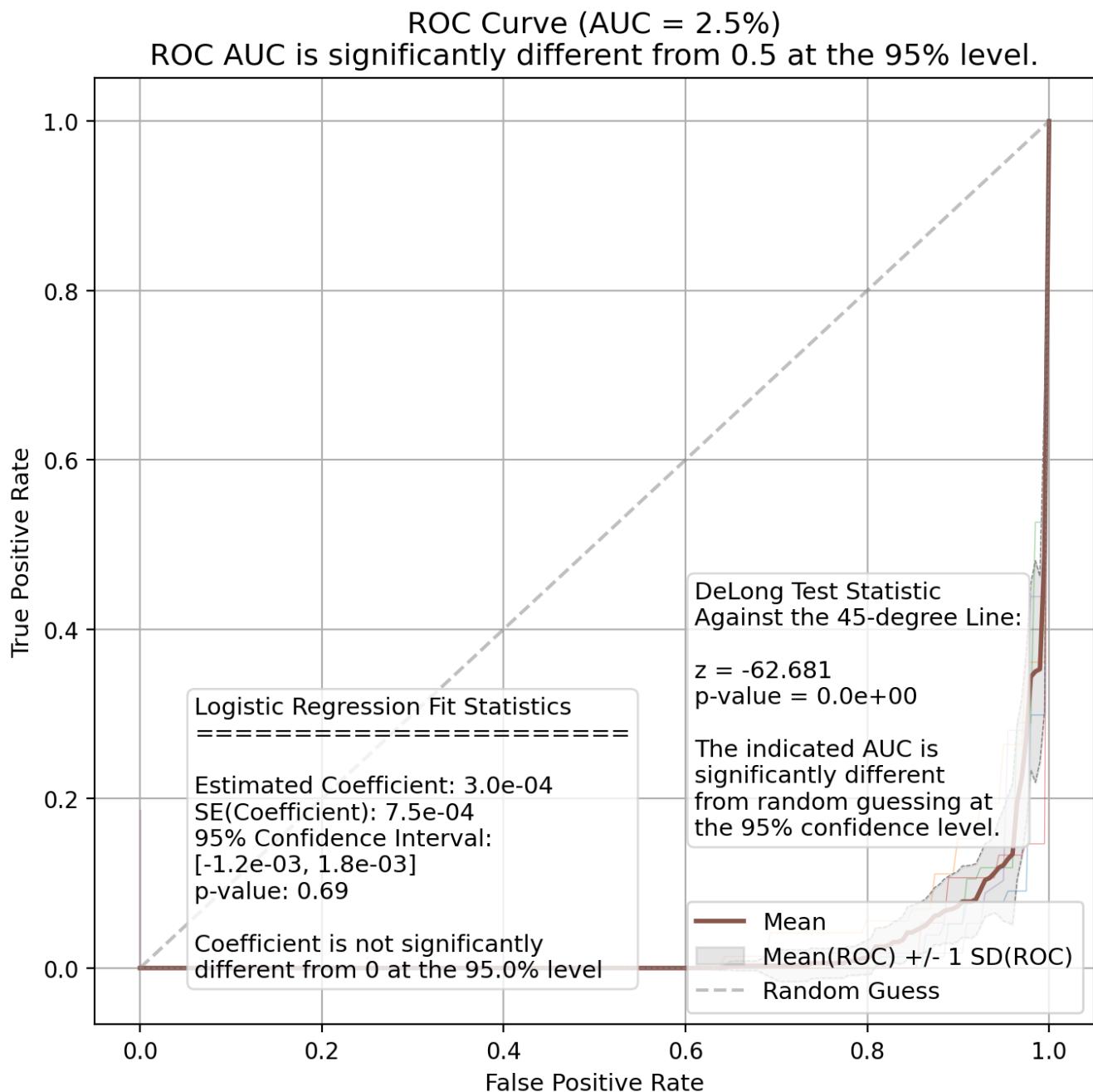
Univariate Report

Worst Perimeter - Empirical CDF Plot



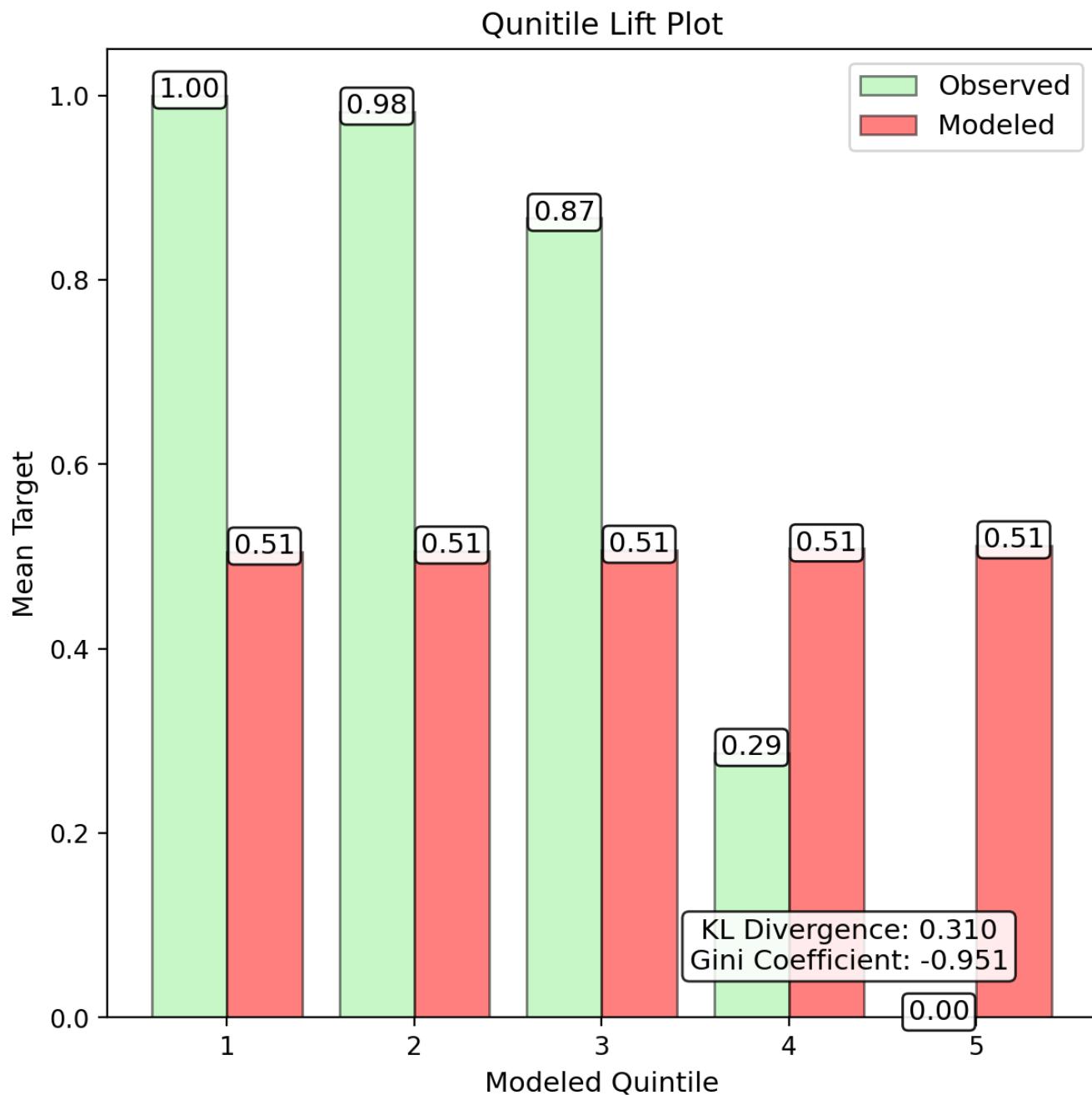
Univariate Report

Worst Perimeter - ROC Curve



Univariate Report

Worst Perimeter - Quintile Lift



Univariate Report

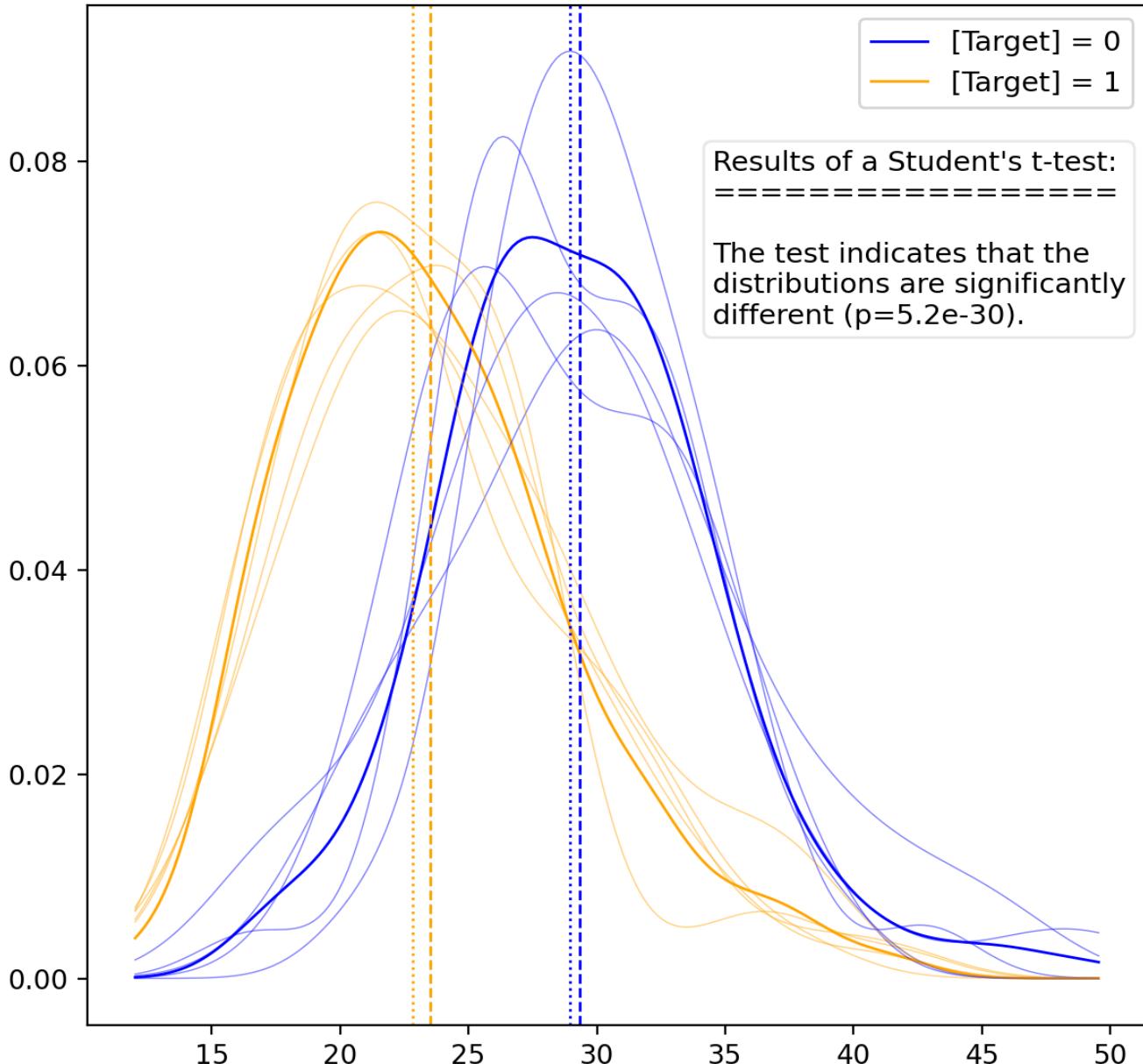
Worst Texture - Results

	Fold-1	Fold-2	Fold-3	Fold-4	Fold-5	Agg. Mean	Agg. SD
Fitted Coef.	1.1e-02	1.0e-02	1.2e-02	8.7e-03	1.2e-02	1.1e-02	1.5e-03
Fitted p-Value	2.8e-03	3.7e-03	7.9e-04	1.4e-02	6.6e-04	7.3e-04	5.4e-03
Fitted Std. Err.	3.6e-03	3.6e-03	3.7e-03	3.5e-03	3.6e-03	3.2e-03	5.8e-05
Conf. Int. Lower	3.7e-03	3.4e-03	5.1e-03	1.8e-03	5.2e-03	4.6e-03	1.4e-03
Conf. Int. Upper	1.8e-02	1.7e-02	2.0e-02	1.6e-02	1.9e-02	1.7e-02	1.6e-03
Train Accuracy	62.4%	62.2%	63.9%	61.4%	63.8%	62.7%	1.1%
Val Accuracy	64.2%	64.9%	58.9%	68.2%	57.6%	62.7%	4.4%
Train AUC	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	0.0%
Val AUC	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	0.0%
Train F1	76.8%	76.7%	77.9%	76.1%	77.9%	77.1%	0.8%
Test F1	78.2%	78.7%	74.1%	81.1%	73.1%	77.1%	3.3%
Train Precision	62.4%	62.2%	63.9%	61.4%	63.8%	62.7%	1.1%
Val Precision	64.2%	64.9%	58.9%	68.2%	57.6%	62.7%	4.4%
Train Recall	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	0.0%
Val Recall	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	0.0%
Train MCC	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Val MCC	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Train Log-Loss	13.57	13.61	13.02	13.90	13.04	13.43	0.38
Val Log-Loss	12.92	12.66	14.81	11.47	15.29	13.43	1.59

Univariate Report

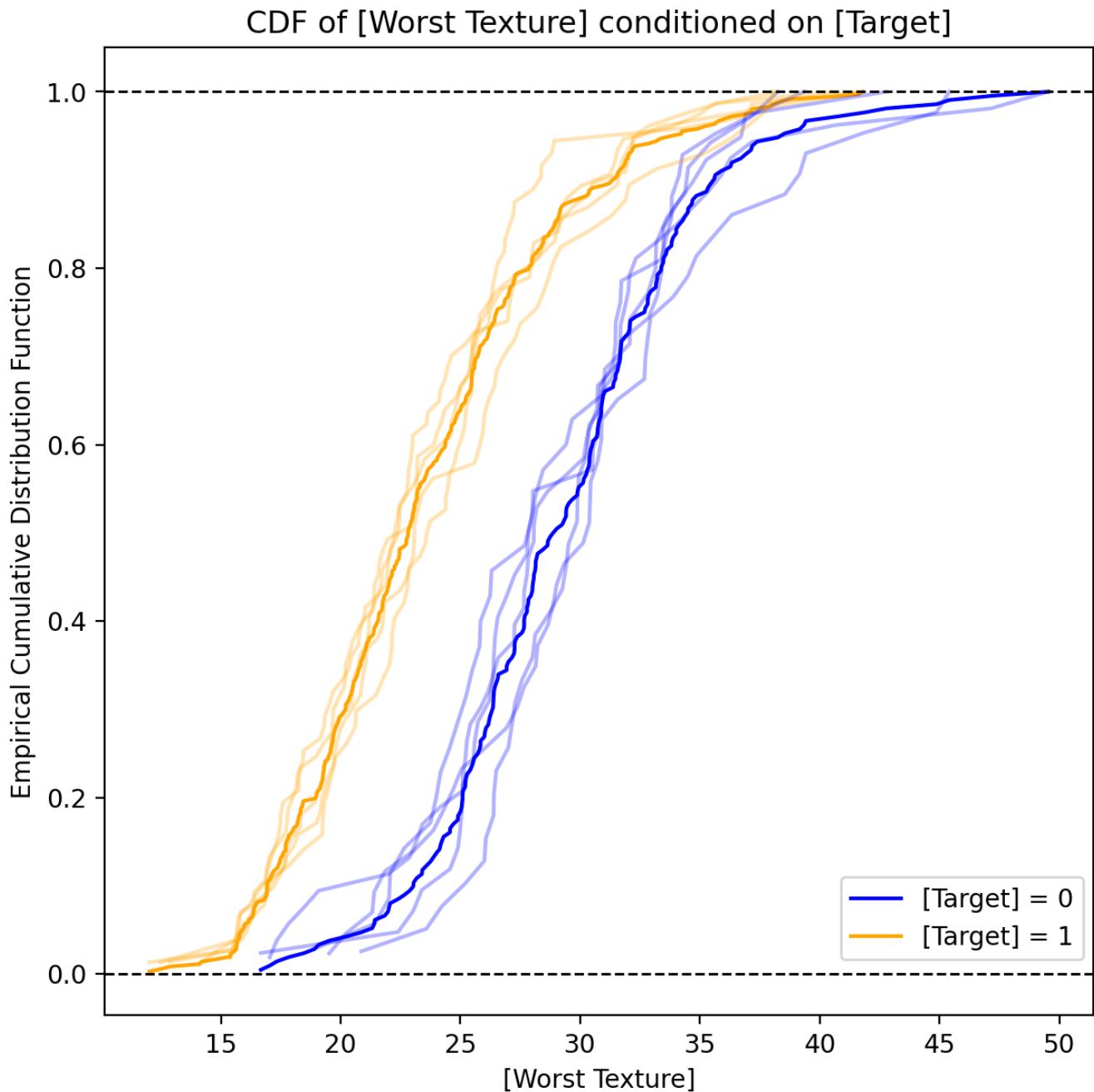
Worst Texture - Kernel Density Plot

Density Plot of [[Worst Texture]] by [[Target]]
Distributions by level are significantly different at the 95% level.



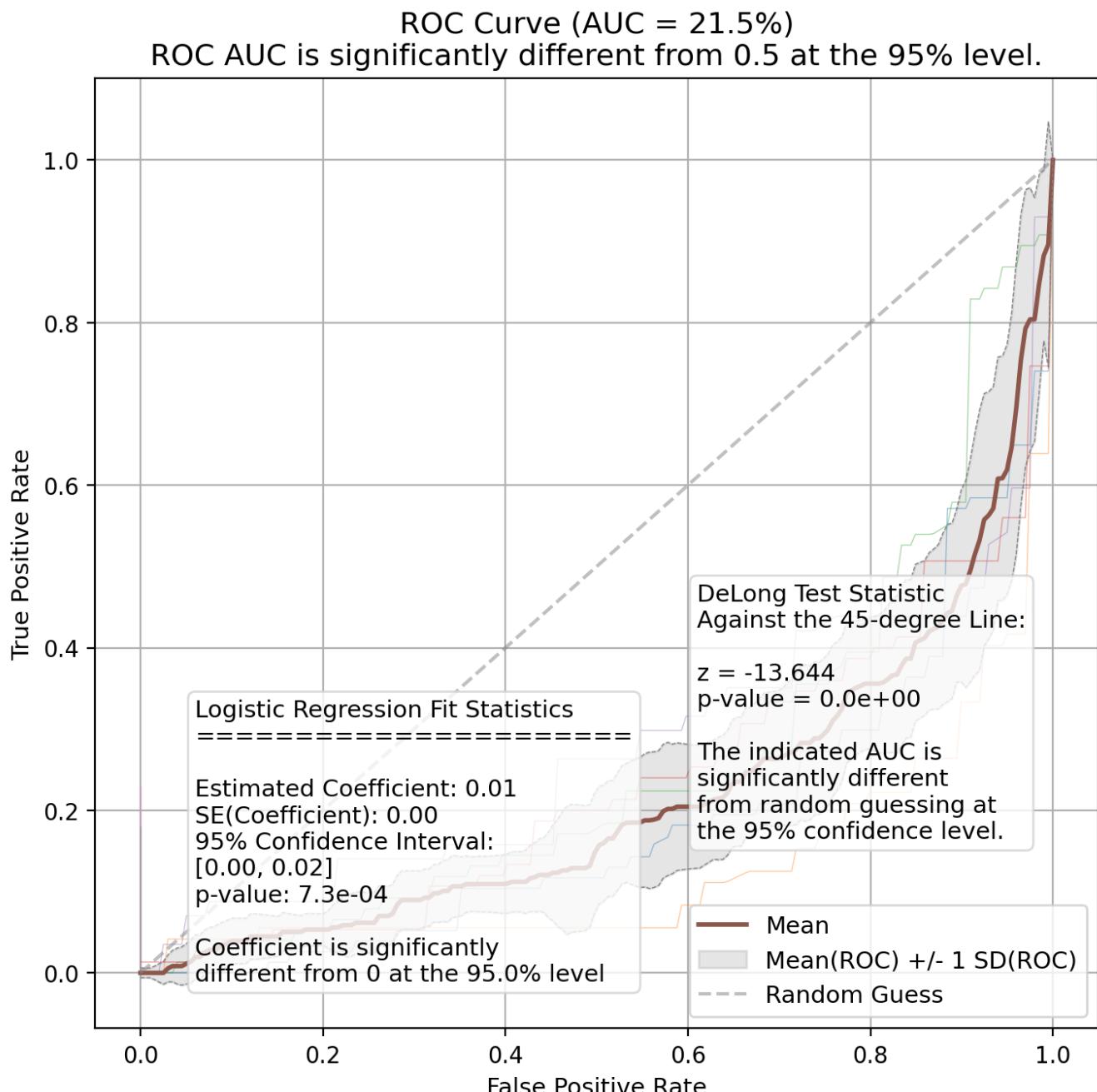
Univariate Report

Worst Texture - Empirical CDF Plot



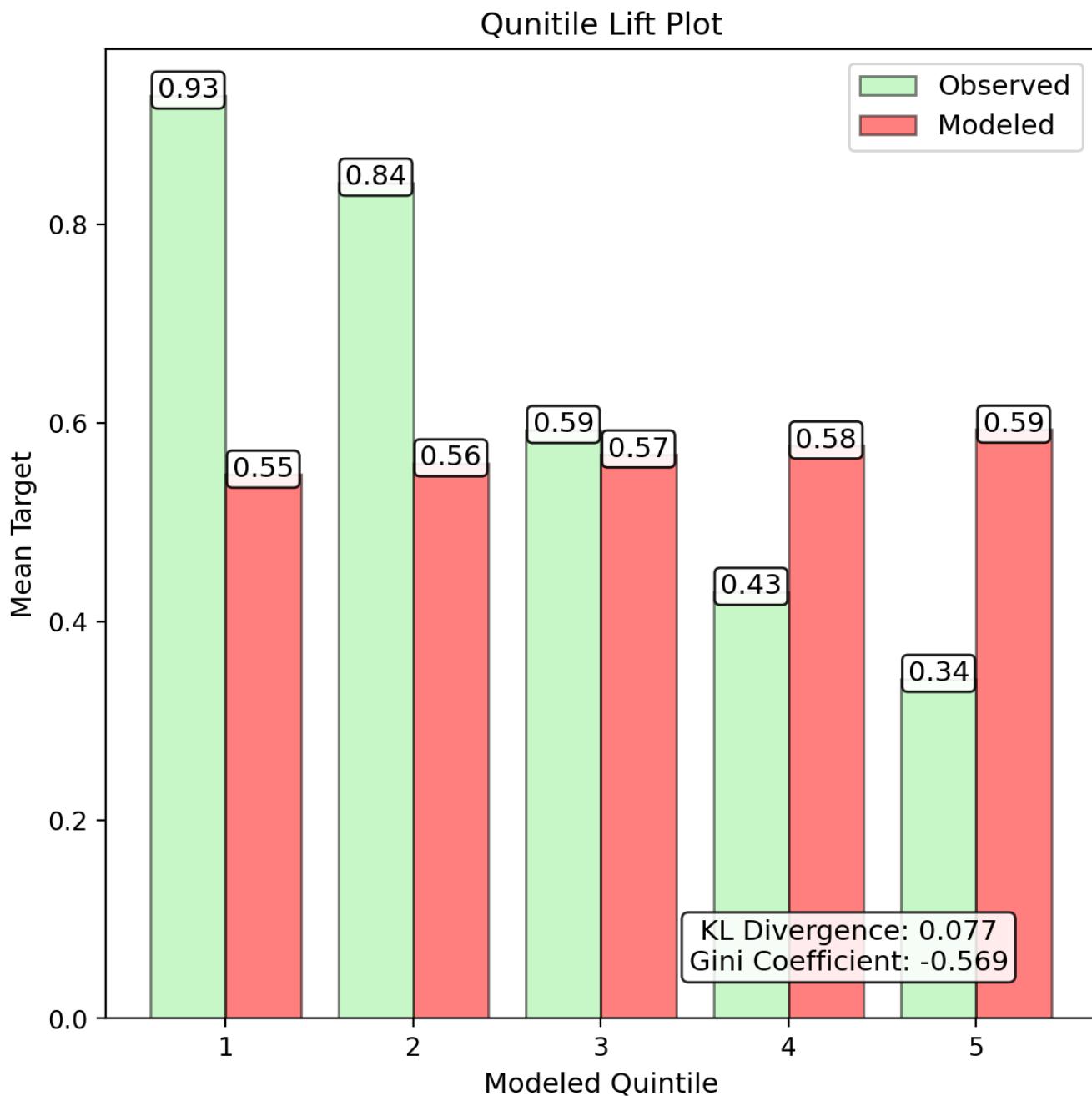
Univariate Report

Worst Texture - ROC Curve



Univariate Report

Worst Texture - Quintile Lift



Univariate Report

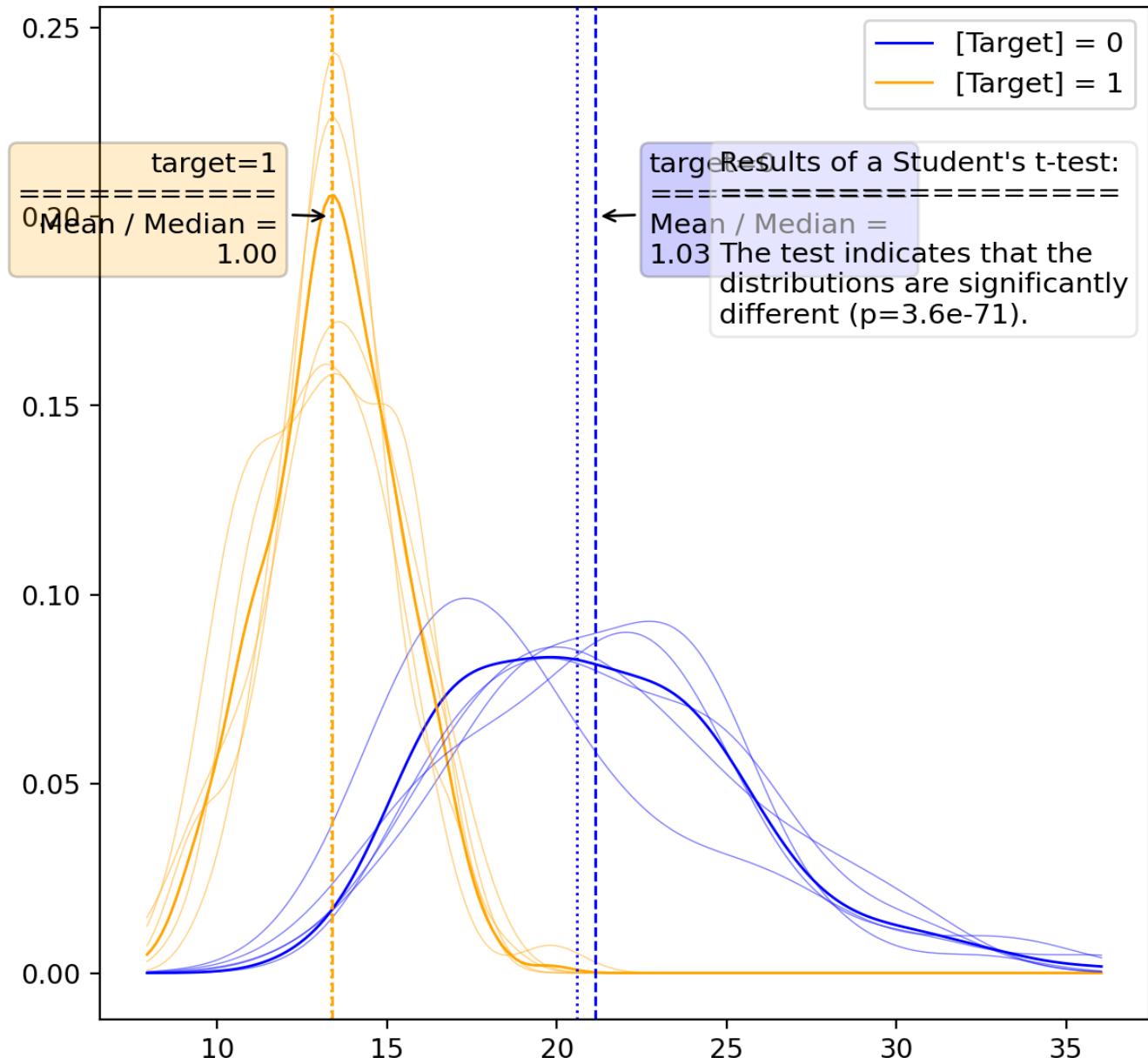
Worst Radius - Results

	Fold-1	Fold-2	Fold-3	Fold-4	Fold-5	Agg. Mean	Agg. SD
Fitted Coef.	3.0e-03	1.3e-03	6.3e-03	5.9e-04	6.7e-03	3.5e-03	2.8e-03
Fitted p-Value	0.594	0.811	0.266	0.915	0.221	0.474	0.313
Fitted Std. Err.	5.6e-03	5.5e-03	5.7e-03	5.5e-03	5.5e-03	4.9e-03	8.7e-05
Conf. Int. Lower	-7.9e-03	-9.4e-03	-4.8e-03	-1.0e-02	-4.0e-03	-6.1e-03	2.7e-03
Conf. Int. Upper	1.4e-02	1.2e-02	1.7e-02	1.1e-02	1.7e-02	1.3e-02	2.9e-03
Train Accuracy	62.4%	62.2%	63.9%	61.4%	63.8%	62.7%	1.1%
Val Accuracy	64.2%	64.9%	58.9%	68.2%	57.6%	62.7%	4.4%
Train AUC	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	0.0%
Val AUC	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	0.0%
Train F1	76.8%	76.7%	77.9%	76.1%	77.9%	77.1%	0.8%
Test F1	78.2%	78.7%	74.1%	81.1%	73.1%	77.1%	3.3%
Train Precision	62.4%	62.2%	63.9%	61.4%	63.8%	62.7%	1.1%
Val Precision	64.2%	64.9%	58.9%	68.2%	57.6%	62.7%	4.4%
Train Recall	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	0.0%
Val Recall	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	0.0%
Train MCC	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Val MCC	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Train Log-Loss	13.57	13.61	13.02	13.90	13.04	13.43	0.38
Val Log-Loss	12.92	12.66	14.81	11.47	15.29	13.43	1.59

Univariate Report

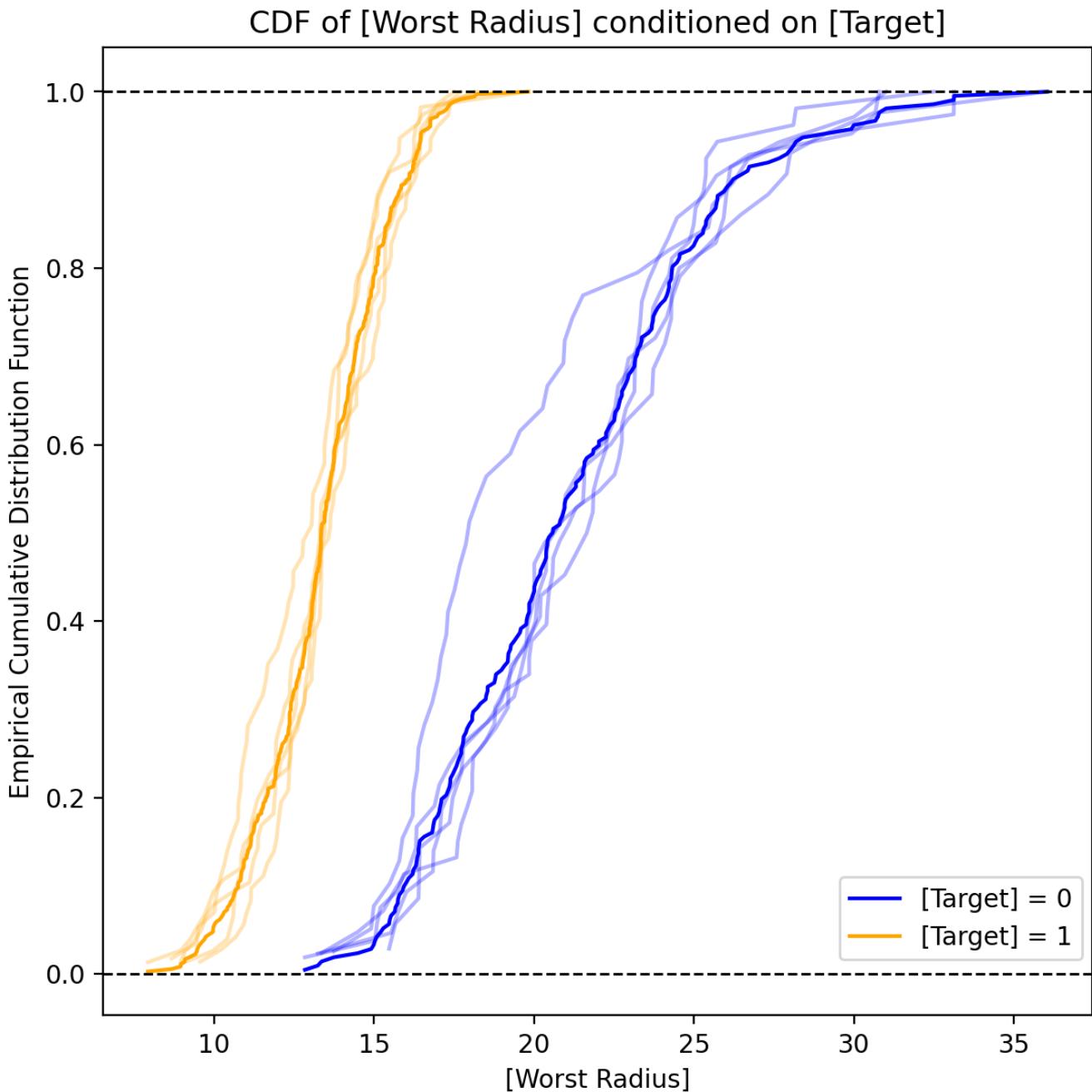
Worst Radius - Kernel Density Plot

Density Plot of [[Worst Radius]] by [[Target]]
Distributions by level are significantly different at the 95% level.



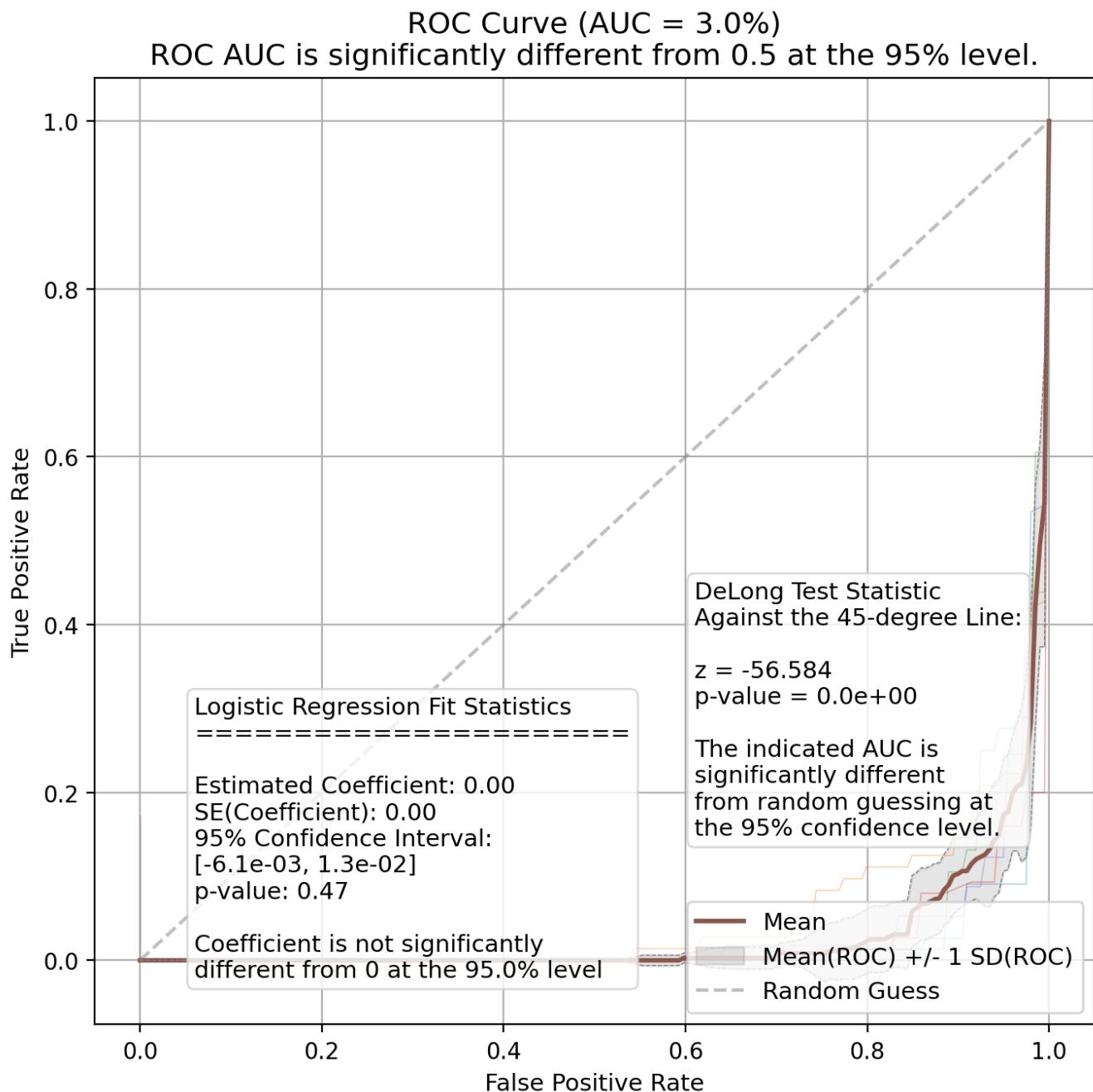
Univariate Report

Worst Radius - Empirical CDF Plot



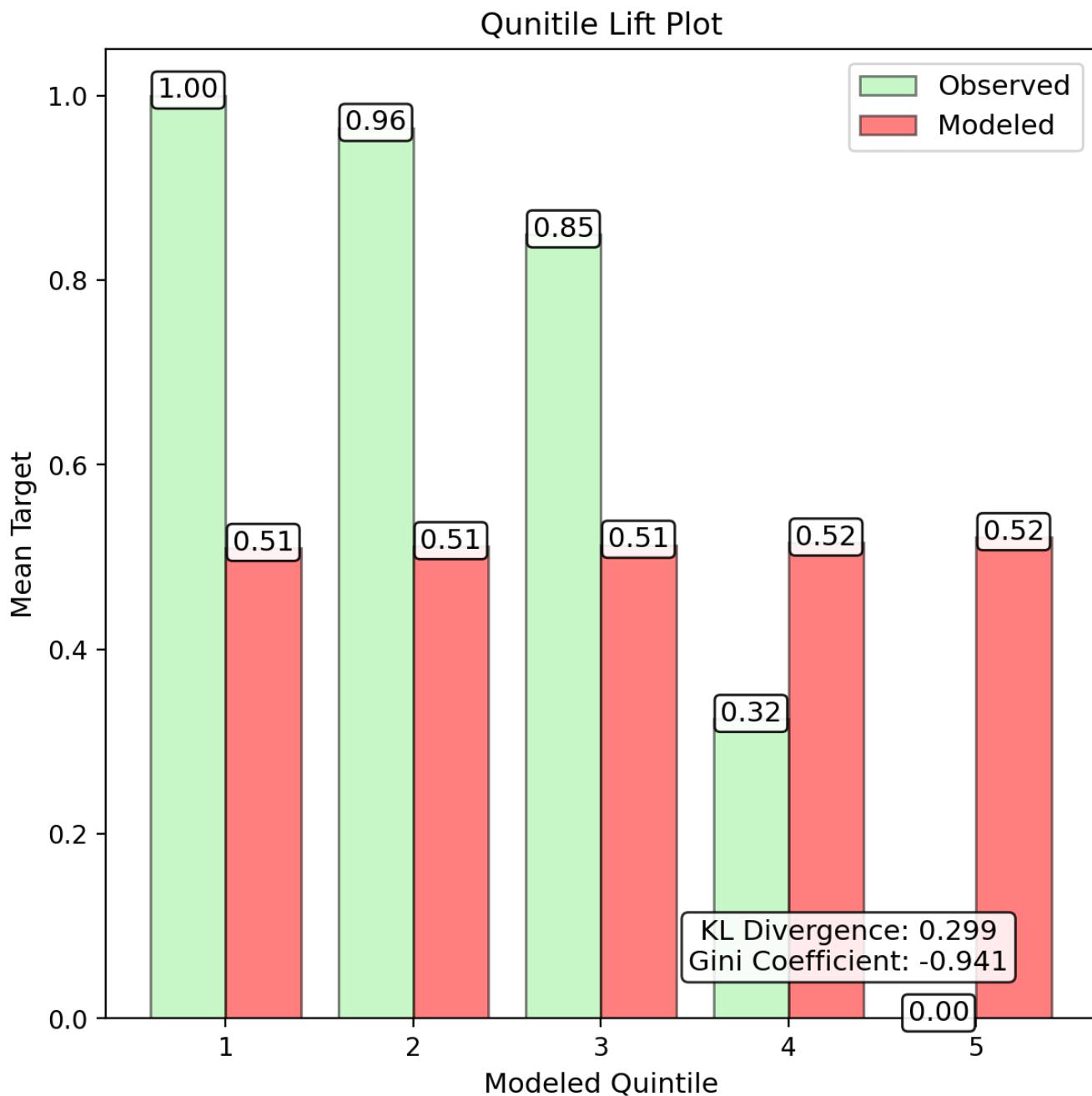
Univariate Report

Worst Radius - ROC Curve



Univariate Report

Worst Radius - Quintile Lift



Univariate Report

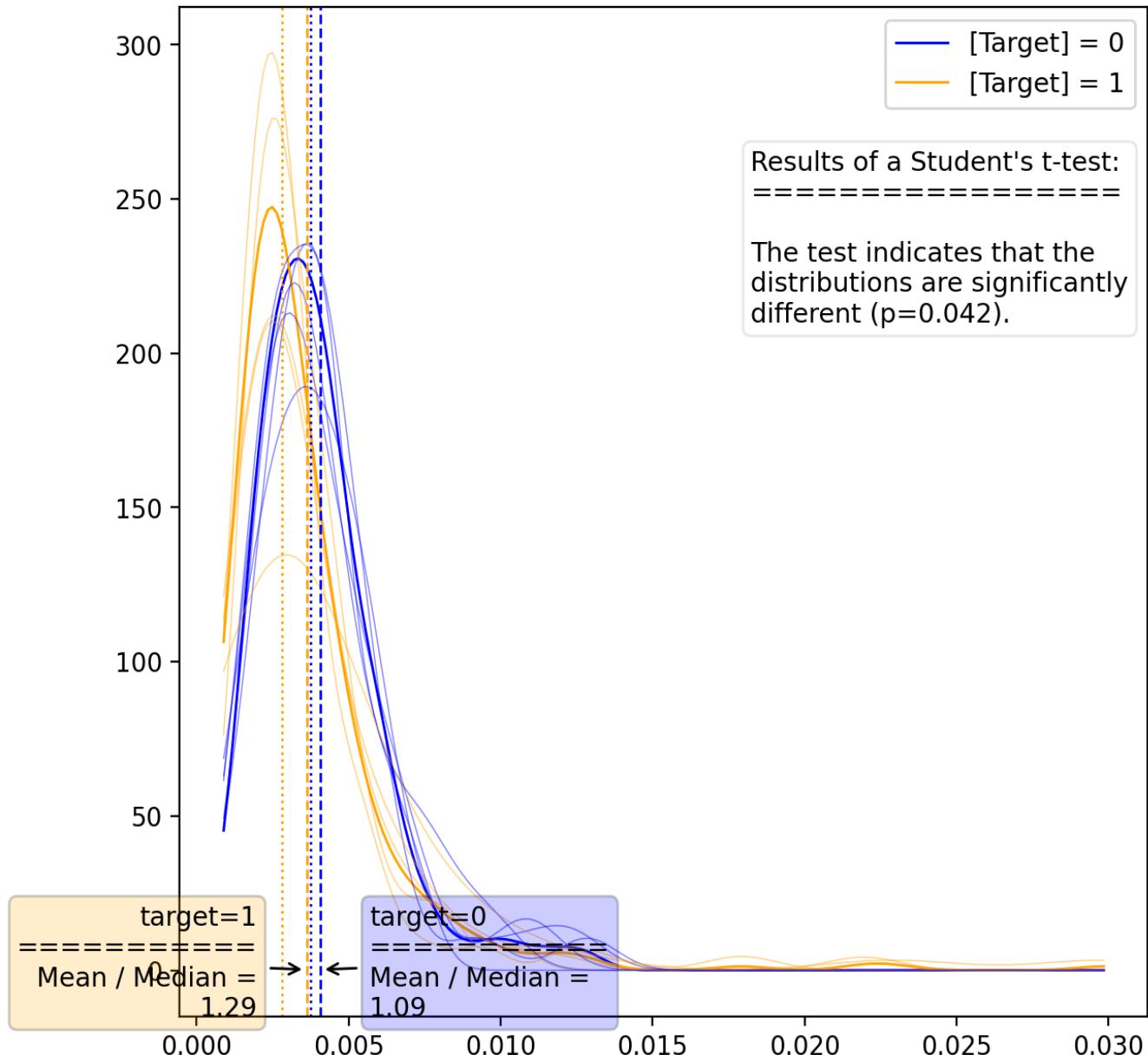
Fractal Dimension Error - Results

	Fold-1	Fold-2	Fold-3	Fold-4	Fold-5	Agg. Mean	Agg. SD
Fitted Coef.	72.86	74.96	86.15	65.38	74.82	74.55	7.44
Fitted p-Value	9.3e-04	4.7e-04	1.9e-04	2.0e-03	7.2e-04	1.5e-04	7.0e-04
Fitted Std. Err.	22.01	21.42	23.11	21.18	22.12	19.63	0.75
Conf. Int. Lower	29.72	32.98	40.86	23.88	31.46	36.09	6.14
Conf. Int. Upper	116.00	116.94	131.45	106.89	118.18	113.02	8.79
Train Accuracy	62.4%	62.2%	63.9%	61.4%	63.8%	62.7%	1.1%
Val Accuracy	64.2%	64.9%	58.9%	68.2%	57.6%	62.7%	4.4%
Train AUC	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	0.0%
Val AUC	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	0.0%
Train F1	76.8%	76.7%	77.9%	76.1%	77.9%	77.1%	0.8%
Test F1	78.2%	78.7%	74.1%	81.1%	73.1%	77.1%	3.3%
Train Precision	62.4%	62.2%	63.9%	61.4%	63.8%	62.7%	1.1%
Val Precision	64.2%	64.9%	58.9%	68.2%	57.6%	62.7%	4.4%
Train Recall	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	0.0%
Val Recall	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	0.0%
Train MCC	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Val MCC	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Train Log-Loss	13.57	13.61	13.02	13.90	13.04	13.43	0.38
Val Log-Loss	12.92	12.66	14.81	11.47	15.29	13.43	1.59

Univariate Report

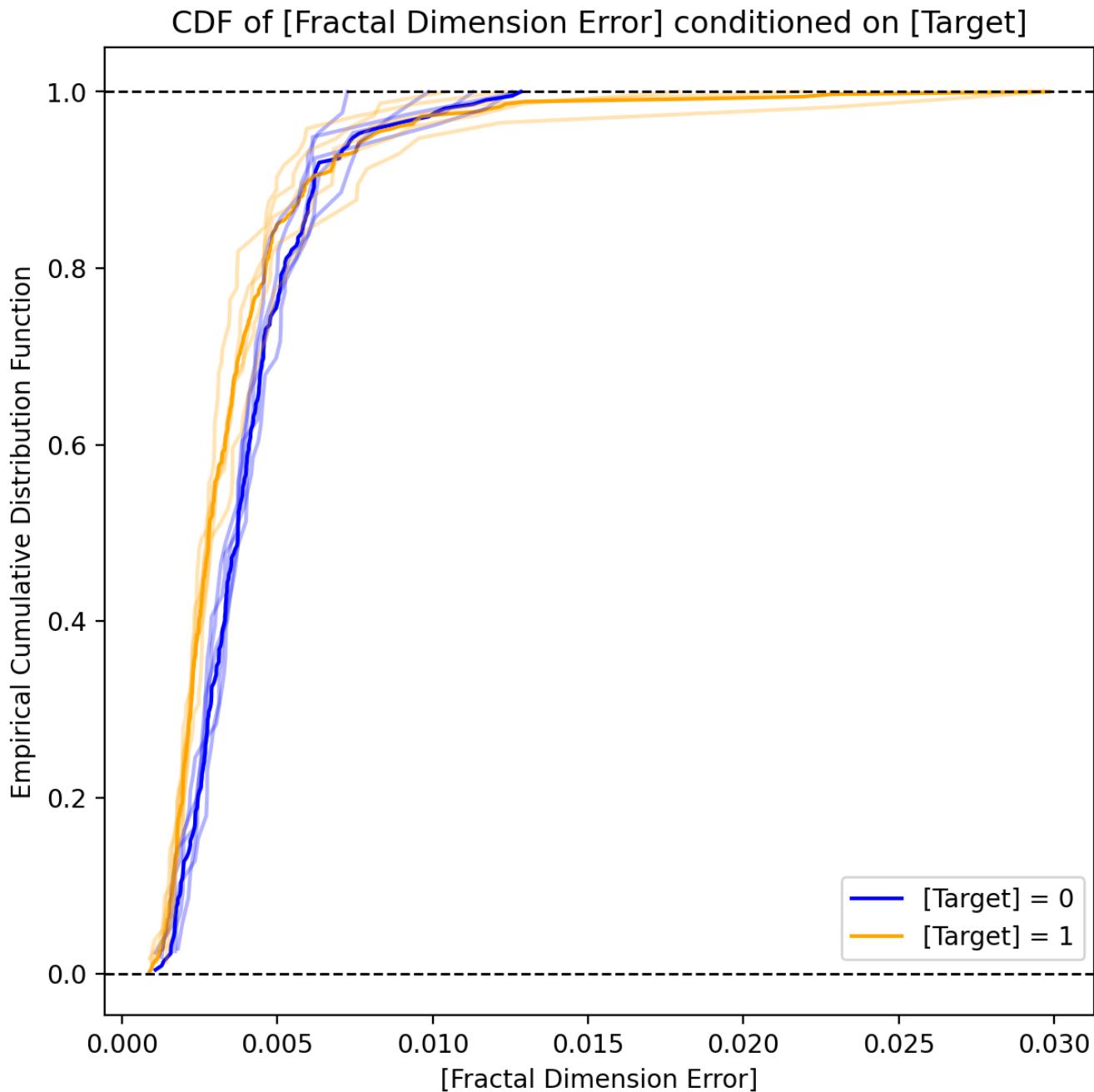
Fractal Dimension Error - Kernel Density Plot

Density Plot of [[Fractal Dimension Error]] by [[Target]]
Distributions by level are significantly different at the 95% level.



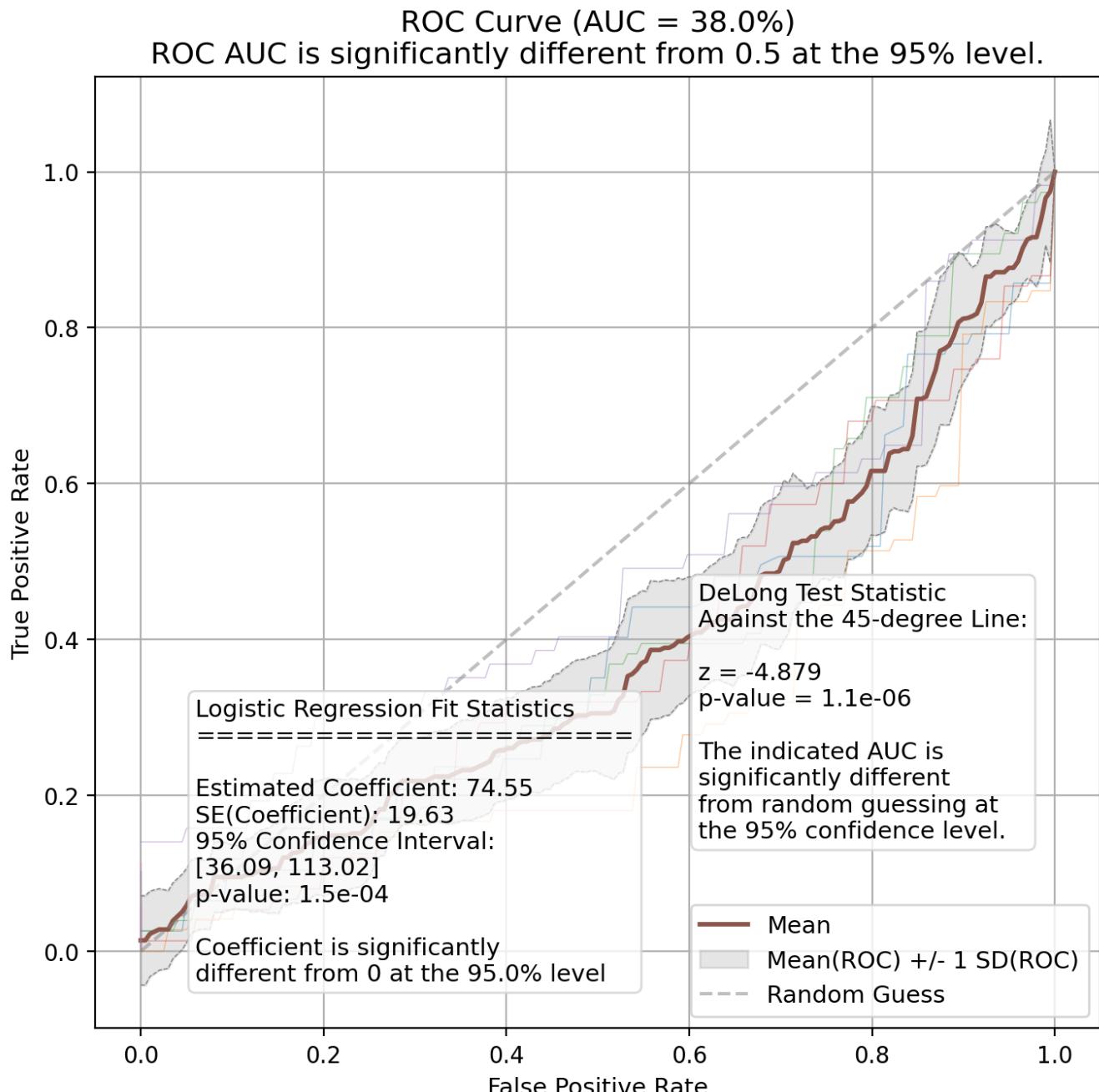
Univariate Report

Fractal Dimension Error - Empirical CDF Plot



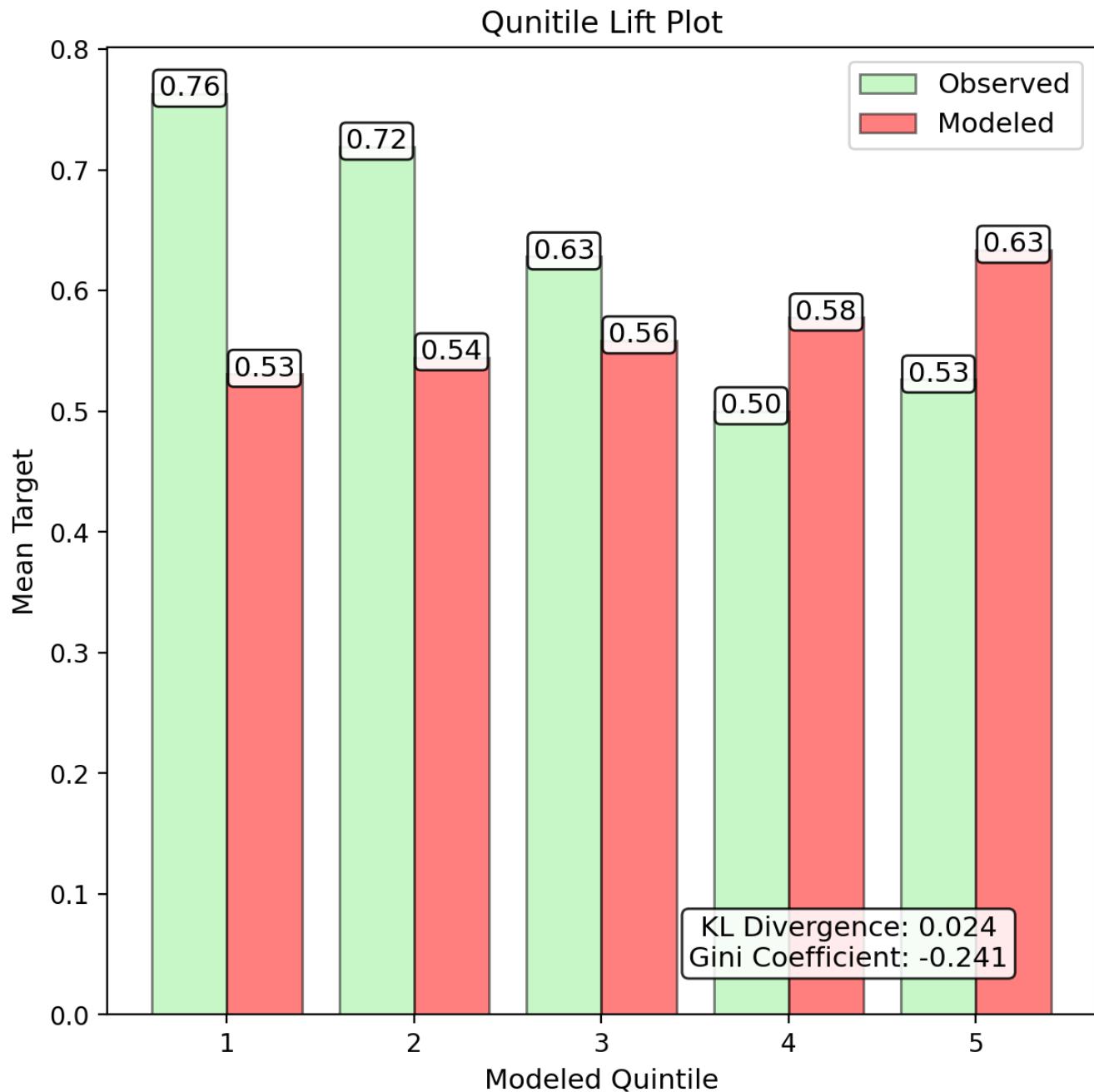
Univariate Report

Fractal Dimension Error - ROC Curve



Univariate Report

Fractal Dimension Error - Quintile Lift



Univariate Report

Symmetry Error - Results

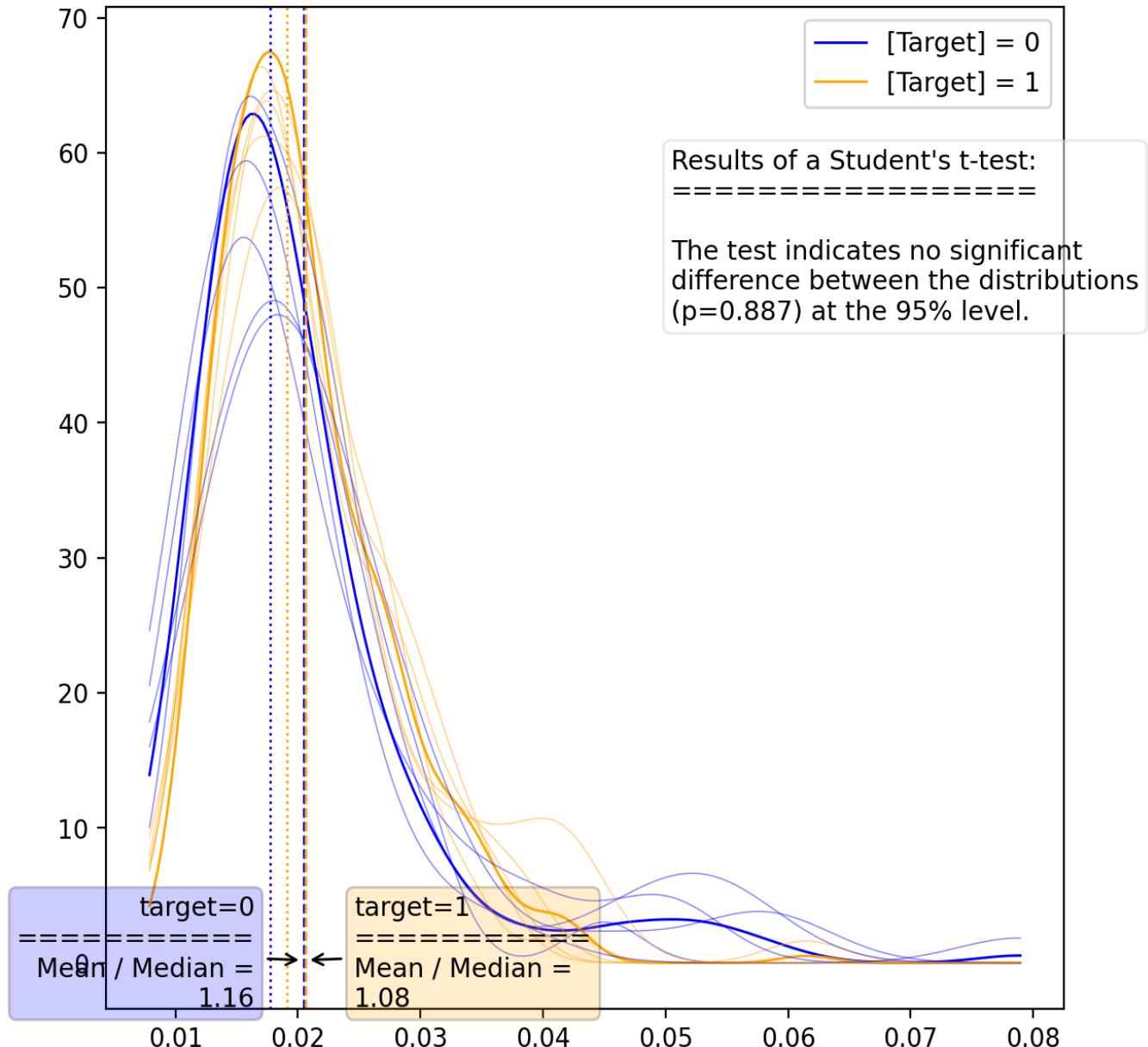
	Fold-1	Fold-2	Fold-3	Fold-4	Fold-5	Agg. Mean	Agg. SD
Fitted Coef.	20.29	22.07	24.22	20.60	22.70	21.96	1.60
Fitted p-Value	5.3e-06	8.0e-07	1.4e-07	3.5e-06	2.9e-07	4.1e-08	2.3e-06
Fitted Std. Err.	4.46	4.47	4.60	4.44	4.42	4.00	0.07
Conf. Int. Lower	11.56	13.30	15.20	11.90	14.03	14.11	1.51
Conf. Int. Upper	29.03	30.83	33.24	29.31	31.37	29.81	1.70
Train Accuracy	62.4%	62.2%	63.9%	61.4%	63.8%	62.7%	1.1%
Val Accuracy	64.2%	64.9%	58.9%	68.2%	57.6%	62.7%	4.4%
Train AUC	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	0.0%
Val AUC	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	0.0%
Train F1	76.8%	76.7%	77.9%	76.1%	77.9%	77.1%	0.8%
Test F1	78.2%	78.7%	74.1%	81.1%	73.1%	77.1%	3.3%
Train Precision	62.4%	62.2%	63.9%	61.4%	63.8%	62.7%	1.1%
Val Precision	64.2%	64.9%	58.9%	68.2%	57.6%	62.7%	4.4%
Train Recall	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	0.0%
Val Recall	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	0.0%
Train MCC	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Val MCC	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Train Log-Loss	13.57	13.61	13.02	13.90	13.04	13.43	0.38
Val Log-Loss	12.92	12.66	14.81	11.47	15.29	13.43	1.59

Univariate Report

Symmetry Error - Kernel Density Plot

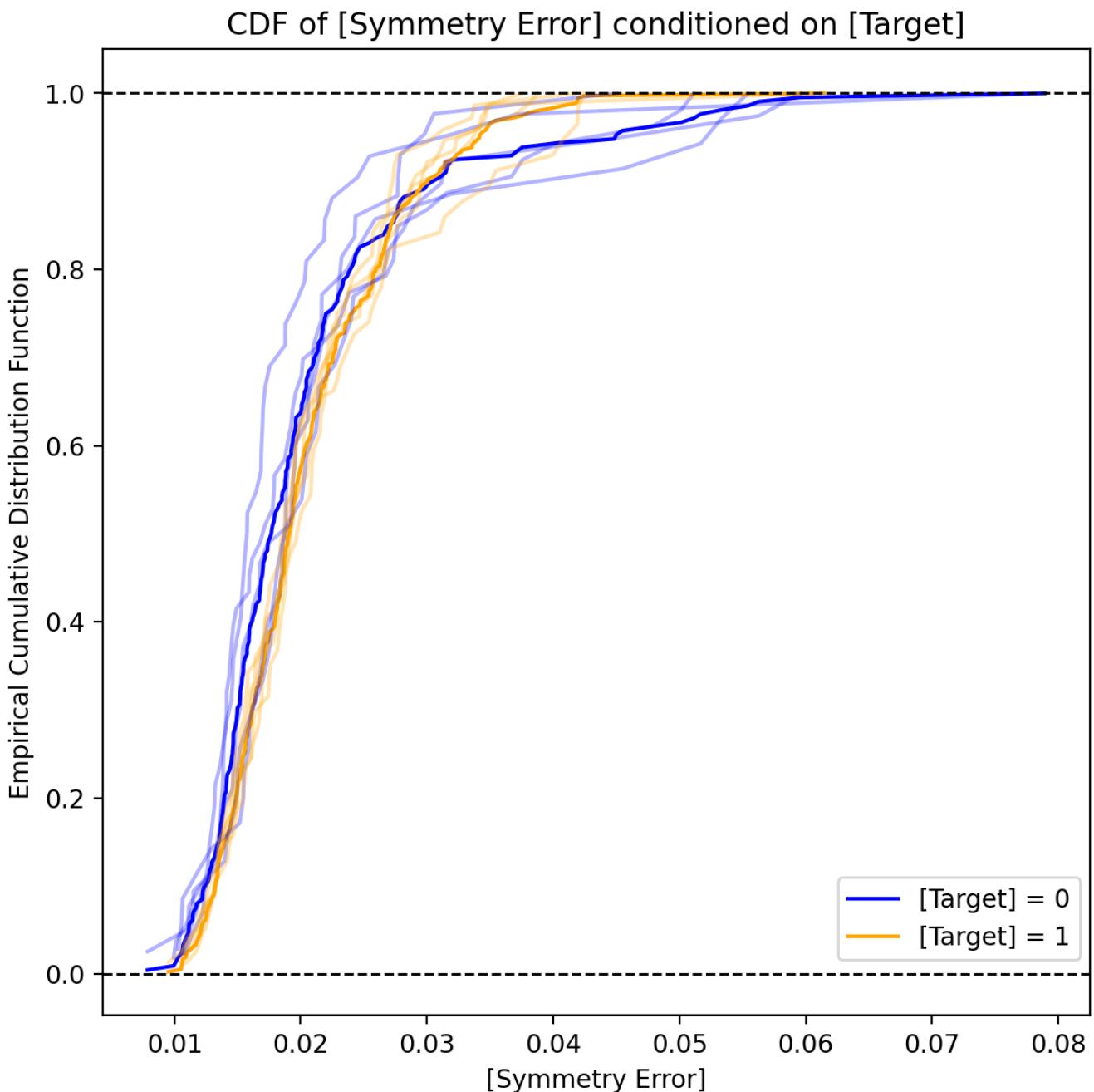
Density Plot of [[Symmetry Error]] by [[Target]]

Distributions by level are not significantly different at the 95% level.



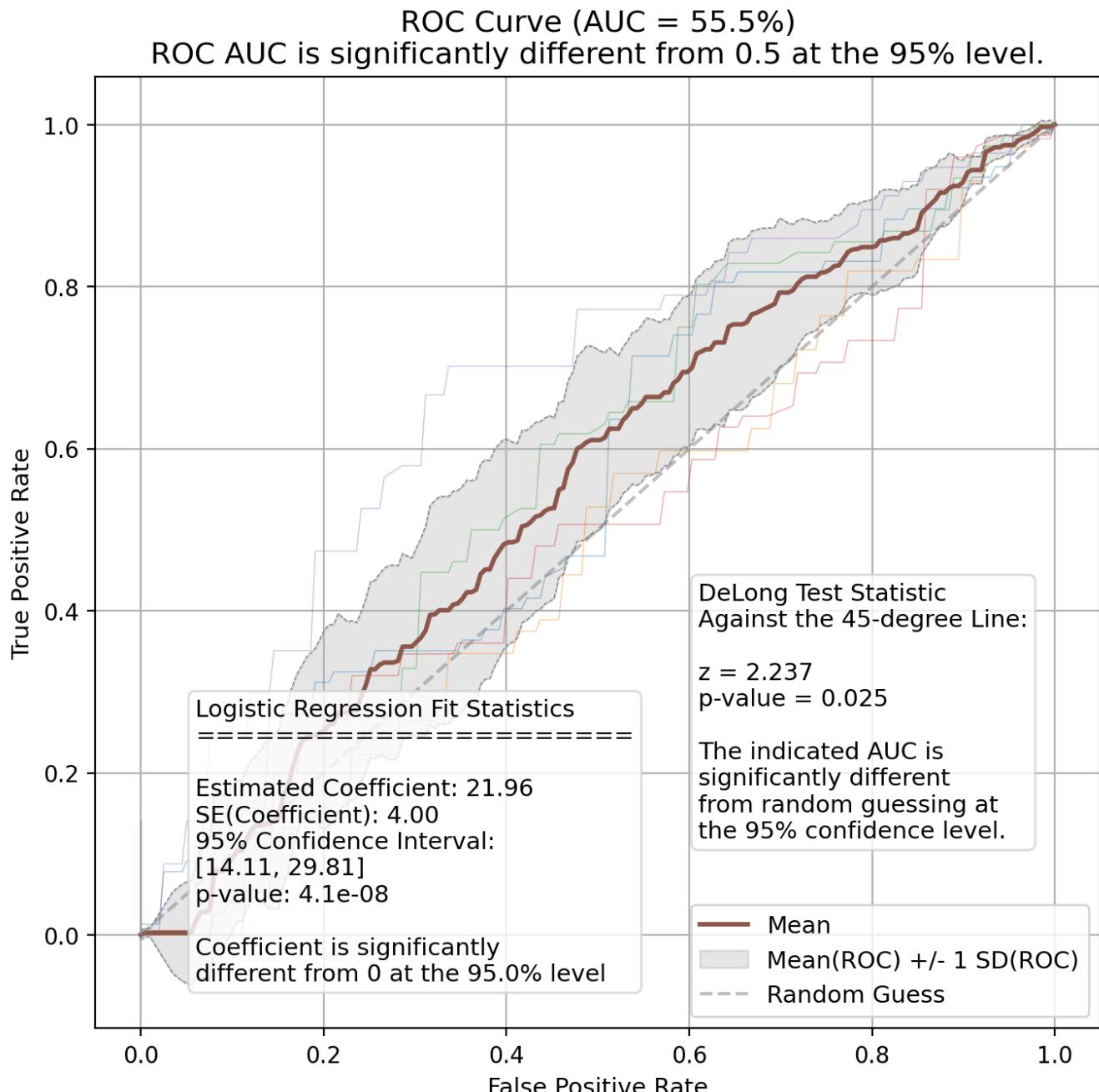
Univariate Report

Symmetry Error - Empirical CDF Plot



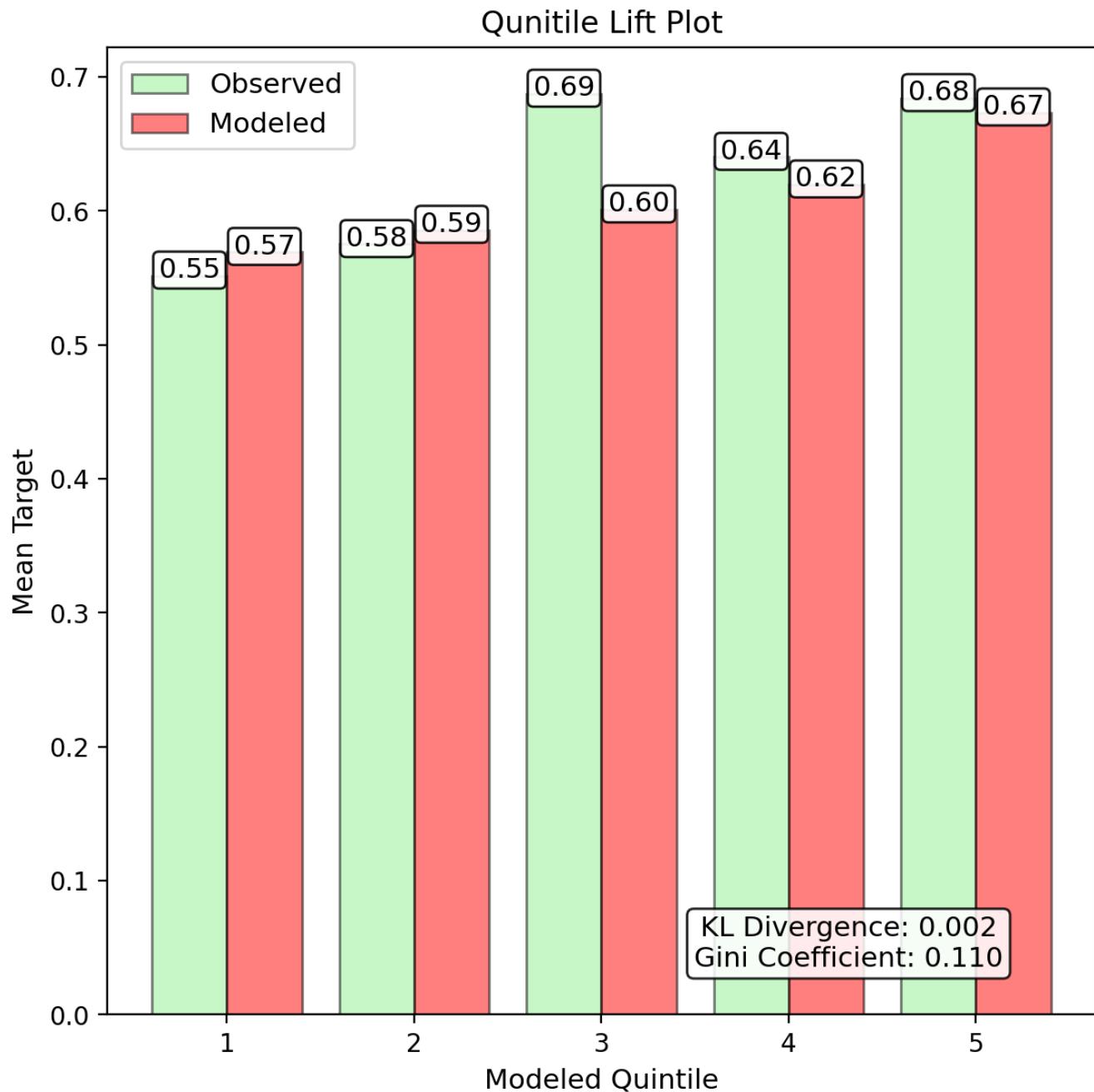
Univariate Report

Symmetry Error - ROC Curve



Univariate Report

Symmetry Error - Quintile Lift



Univariate Report

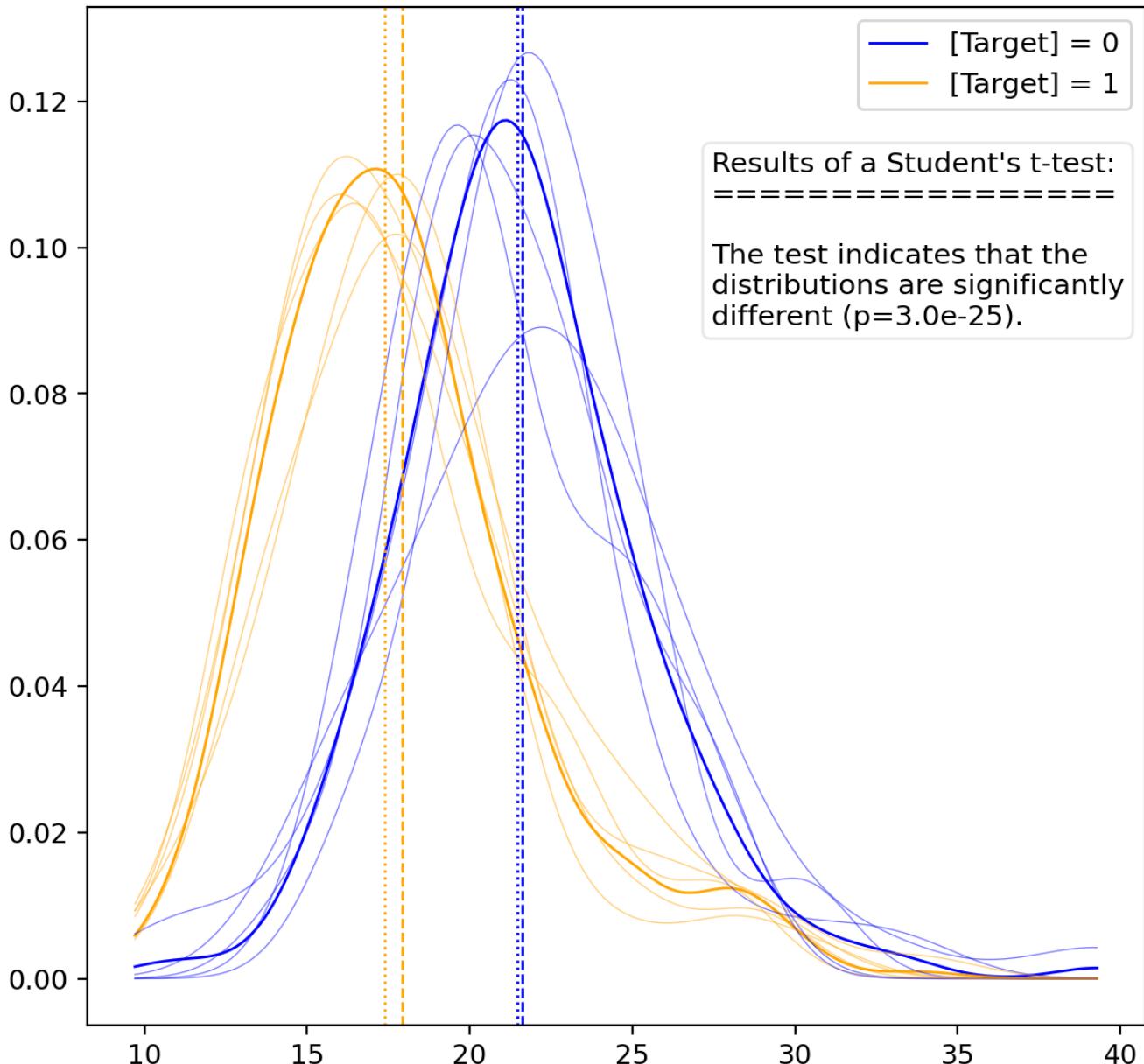
Mean Texture - Results

	Fold-1	Fold-2	Fold-3	Fold-4	Fold-5	Agg. Mean	Agg. SD
Fitted Coef.	1.6e-02	1.6e-02	1.8e-02	1.3e-02	1.8e-02	1.6e-02	1.9e-03
Fitted p-Value	8.7e-04	1.0e-03	3.2e-04	4.7e-03	1.7e-04	1.7e-04	1.9e-03
Fitted Std. Err.	4.9e-03	4.8e-03	4.9e-03	4.7e-03	4.8e-03	4.3e-03	7.7e-05
Conf. Int. Lower	6.7e-03	6.3e-03	8.1e-03	4.1e-03	8.6e-03	7.7e-03	1.8e-03
Conf. Int. Upper	2.6e-02	2.5e-02	2.7e-02	2.3e-02	2.7e-02	2.5e-02	1.9e-03
Train Accuracy	62.4%	62.2%	63.9%	61.4%	63.8%	62.7%	1.1%
Val Accuracy	64.2%	64.9%	58.9%	68.2%	57.6%	62.7%	4.4%
Train AUC	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	0.0%
Val AUC	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	0.0%
Train F1	76.8%	76.7%	77.9%	76.1%	77.9%	77.1%	0.8%
Test F1	78.2%	78.7%	74.1%	81.1%	73.1%	77.1%	3.3%
Train Precision	62.4%	62.2%	63.9%	61.4%	63.8%	62.7%	1.1%
Val Precision	64.2%	64.9%	58.9%	68.2%	57.6%	62.7%	4.4%
Train Recall	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	0.0%
Val Recall	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	0.0%
Train MCC	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Val MCC	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Train Log-Loss	13.57	13.61	13.02	13.90	13.04	13.43	0.38
Val Log-Loss	12.92	12.66	14.81	11.47	15.29	13.43	1.59

Univariate Report

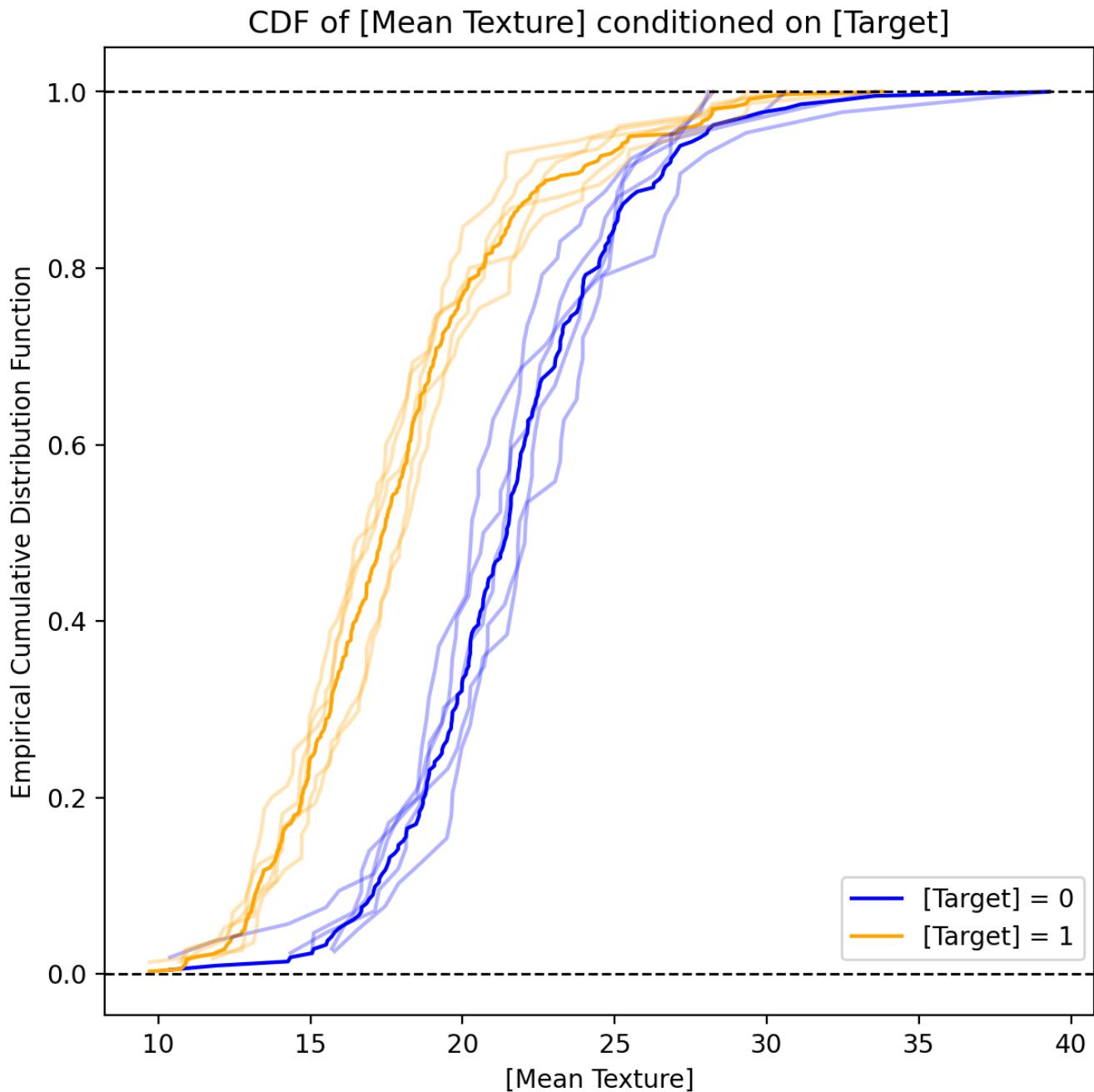
Mean Texture - Kernel Density Plot

Density Plot of [[Mean Texture]] by [[Target]]
Distributions by level are significantly different at the 95% level.



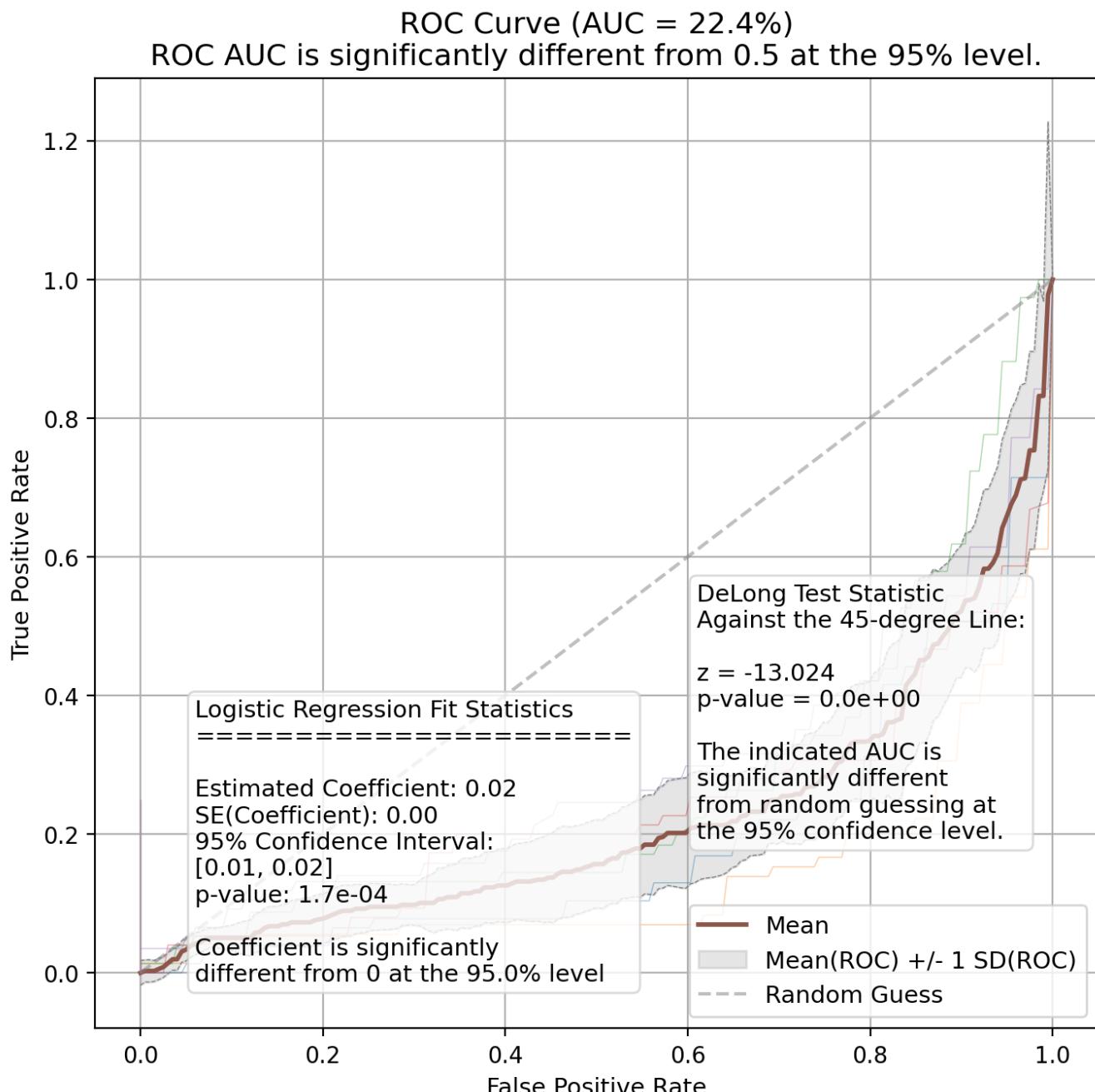
Univariate Report

Mean Texture - Empirical CDF Plot



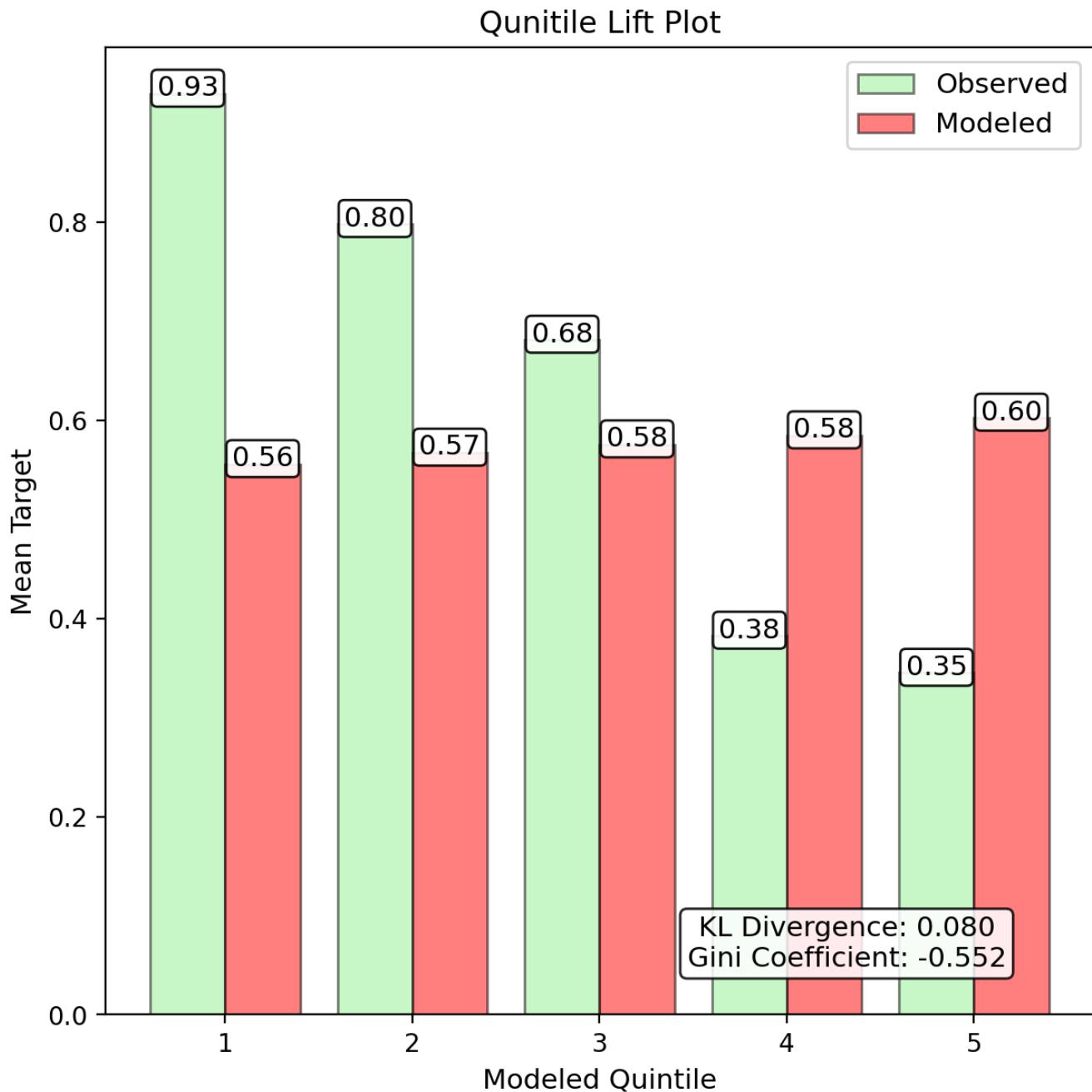
Univariate Report

Mean Texture - ROC Curve



Univariate Report

Mean Texture - Quintile Lift



Univariate Report

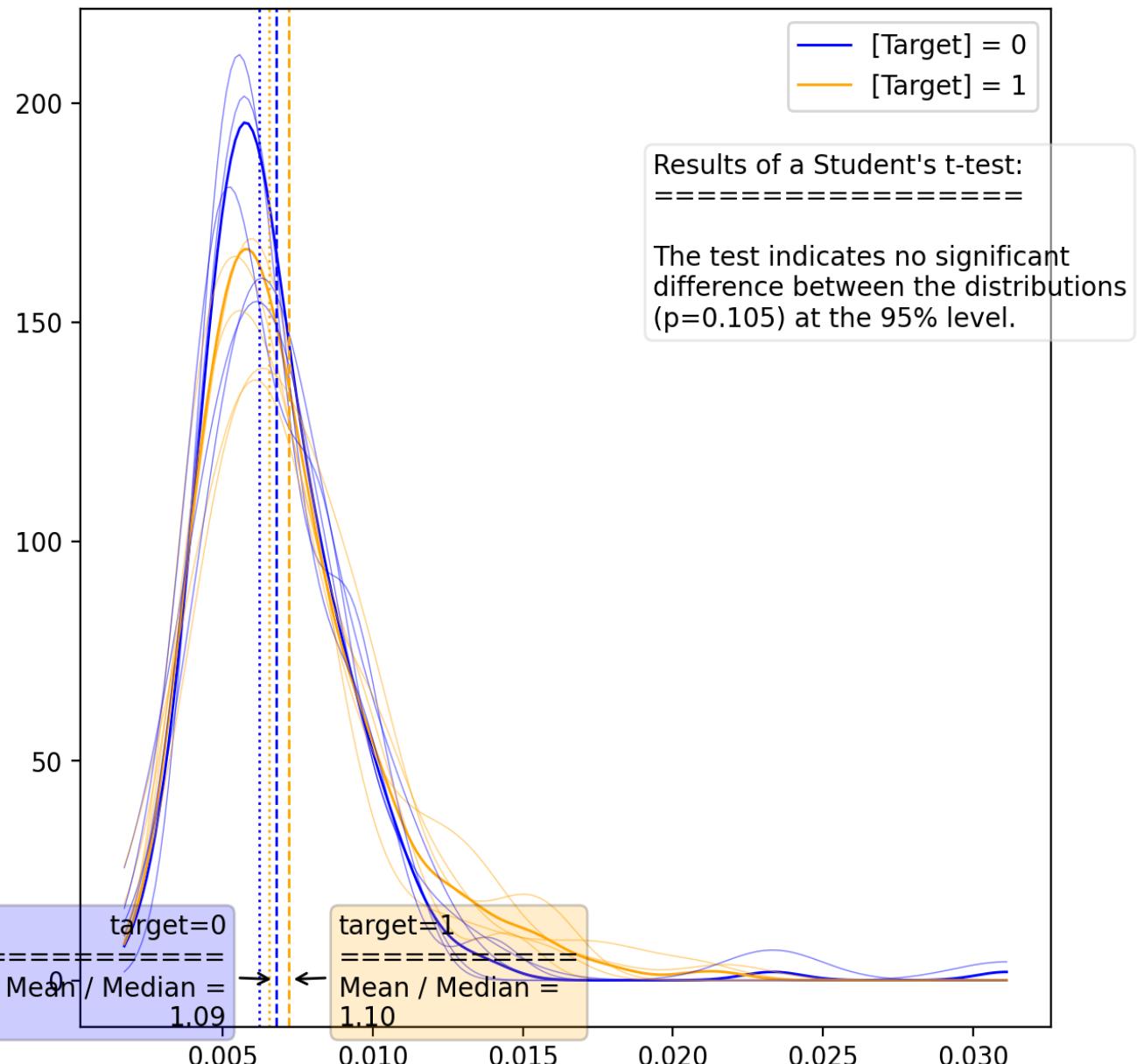
Smoothness Error - Results

	Fold-1	Fold-2	Fold-3	Fold-4	Fold-5	Agg. Mean	Agg. SD
Fitted Coef.	67.16	66.87	78.18	65.87	71.95	69.88	5.14
Fitted p-Value	3.1e-07	2.0e-07	1.1e-08	4.6e-07	3.2e-08	2.8e-09	1.9e-07
Fitted Std. Err.	13.12	12.86	13.69	13.06	13.00	11.75	0.32
Conf. Int. Lower	41.44	41.65	51.35	40.27	46.46	46.84	4.63
Conf. Int. Upper	92.89	92.08	105.01	91.46	97.44	92.92	5.67
Train Accuracy	62.4%	62.2%	63.9%	61.4%	63.8%	62.7%	1.1%
Val Accuracy	64.2%	64.9%	58.9%	68.2%	57.6%	62.7%	4.4%
Train AUC	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	0.0%
Val AUC	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	0.0%
Train F1	76.8%	76.7%	77.9%	76.1%	77.9%	77.1%	0.8%
Test F1	78.2%	78.7%	74.1%	81.1%	73.1%	77.1%	3.3%
Train Precision	62.4%	62.2%	63.9%	61.4%	63.8%	62.7%	1.1%
Val Precision	64.2%	64.9%	58.9%	68.2%	57.6%	62.7%	4.4%
Train Recall	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	0.0%
Val Recall	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	0.0%
Train MCC	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Val MCC	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Train Log-Loss	13.57	13.61	13.02	13.90	13.04	13.43	0.38
Val Log-Loss	12.92	12.66	14.81	11.47	15.29	13.43	1.59

Univariate Report

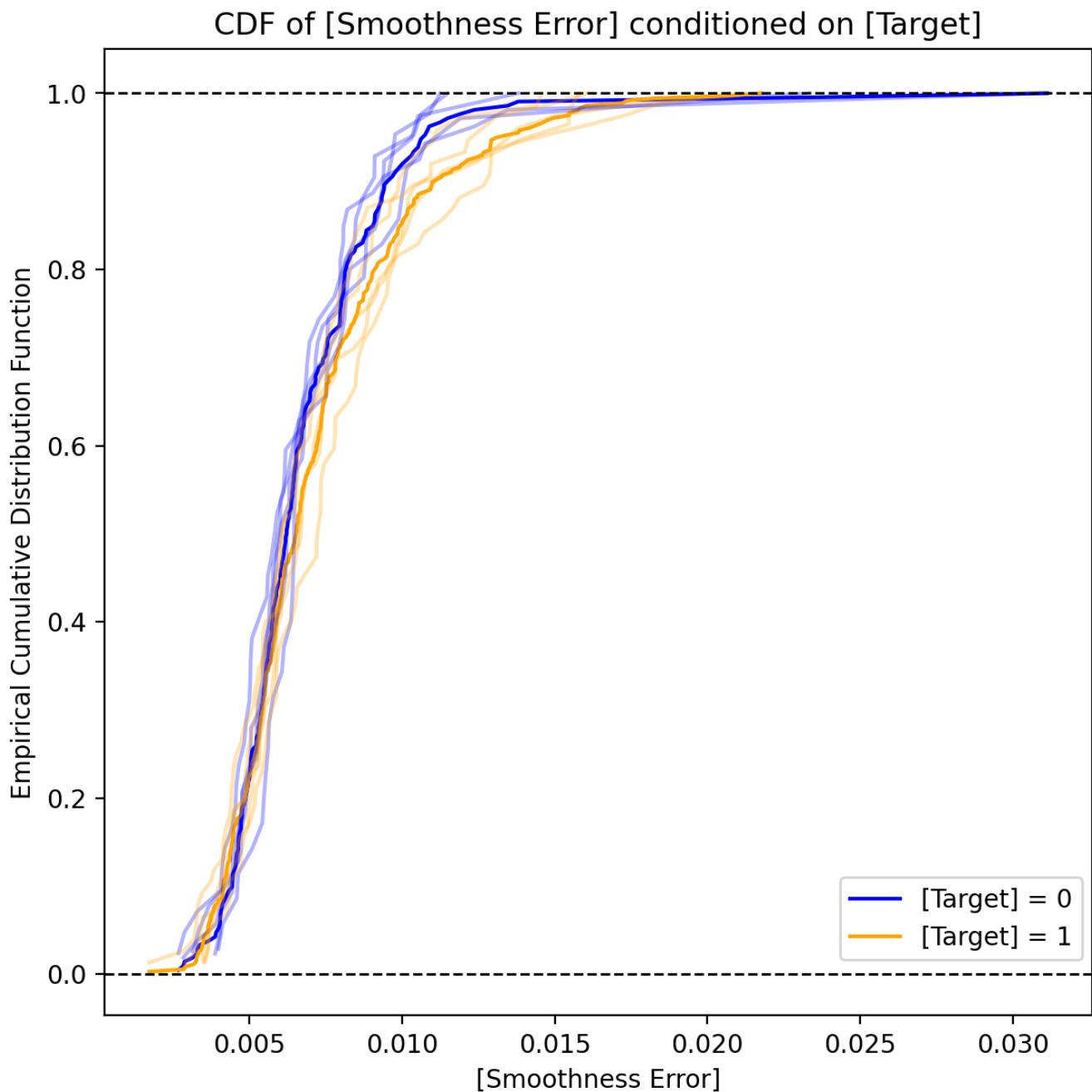
Smoothness Error - Kernel Density Plot

Density Plot of [[Smoothness Error]] by [[Target]]
Distributions by level are not significantly different at the 95% level.



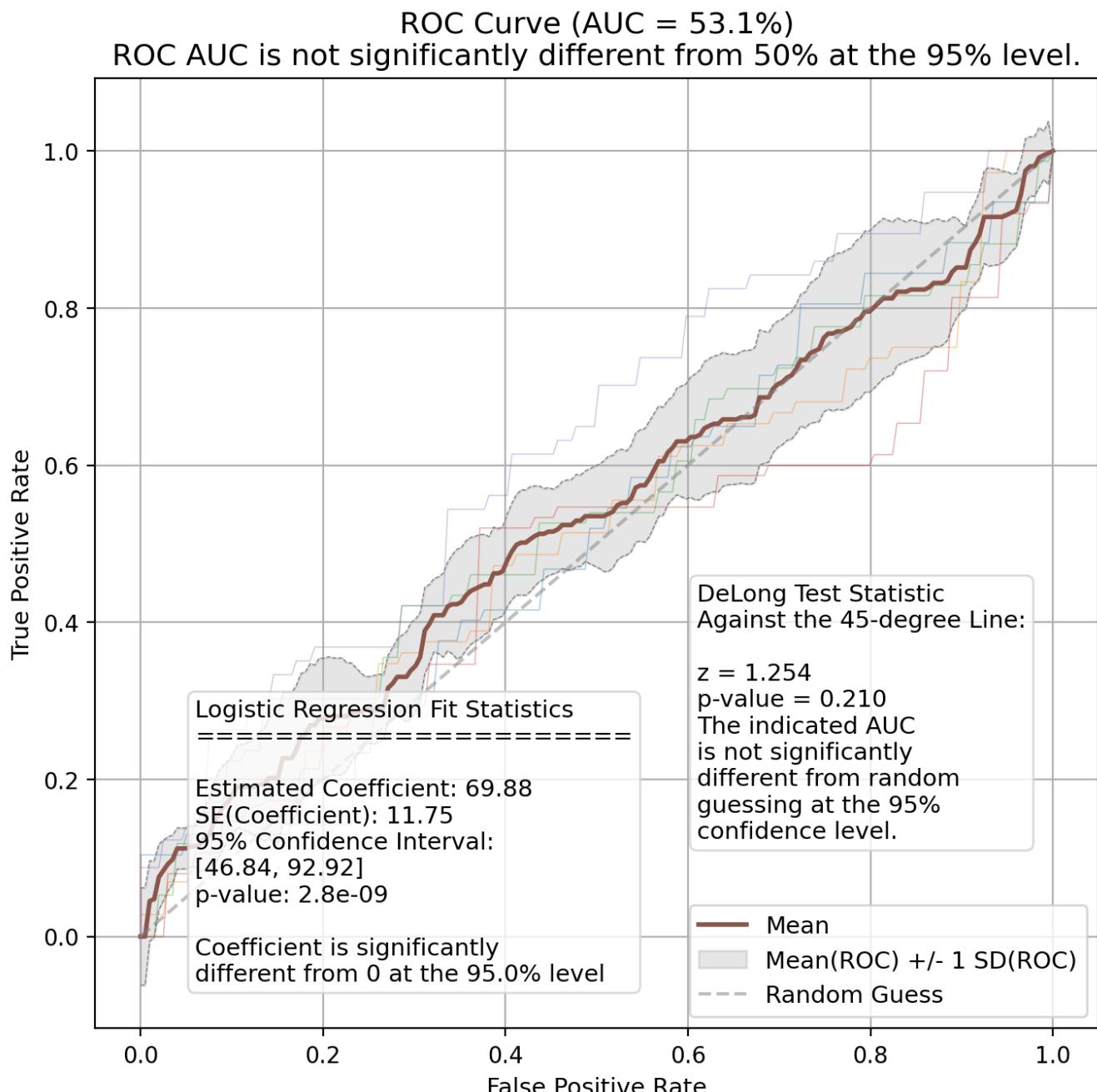
Univariate Report

Smoothness Error - Empirical CDF Plot



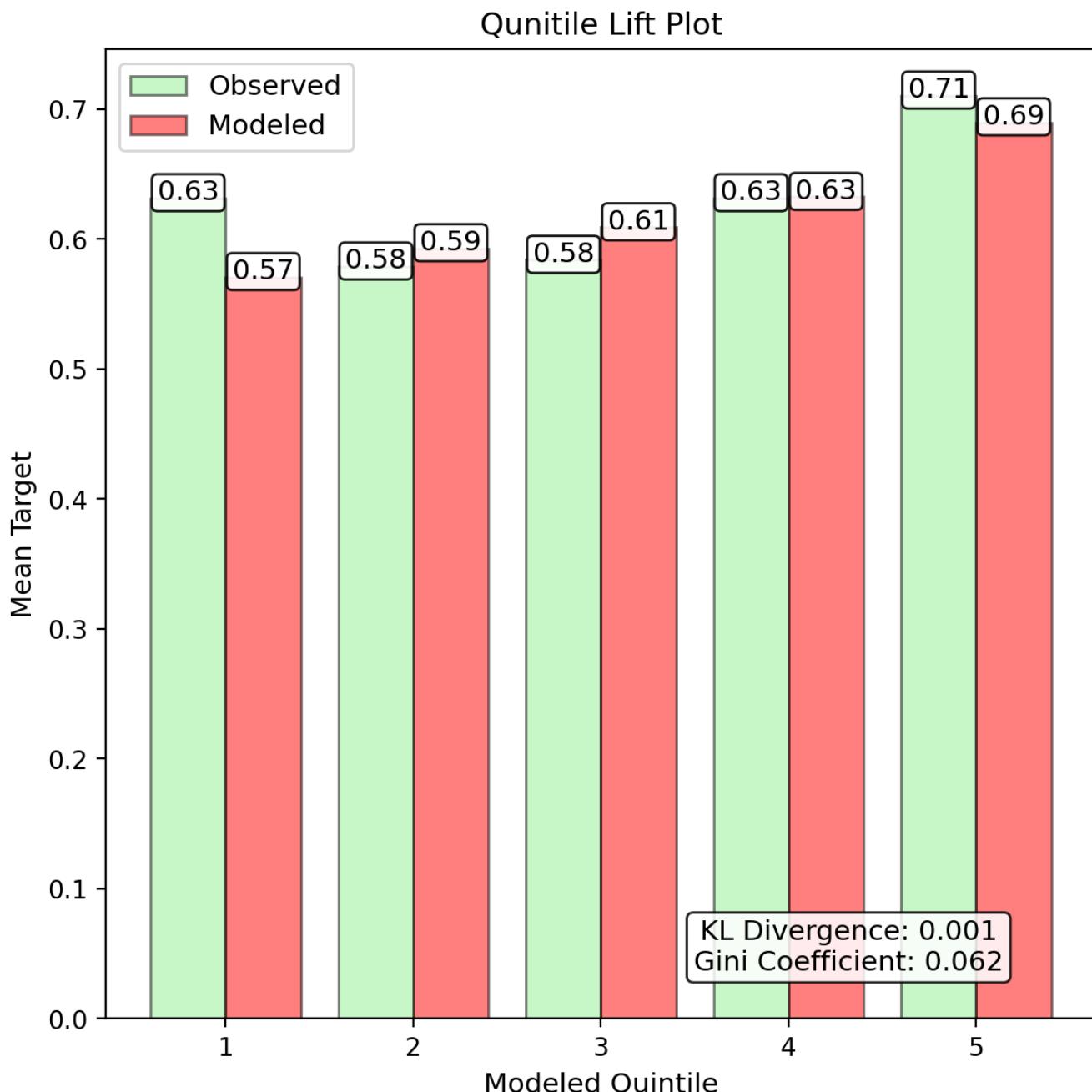
Univariate Report

Smoothness Error - ROC Curve



Univariate Report

Smoothness Error - Quintile Lift



Univariate Report

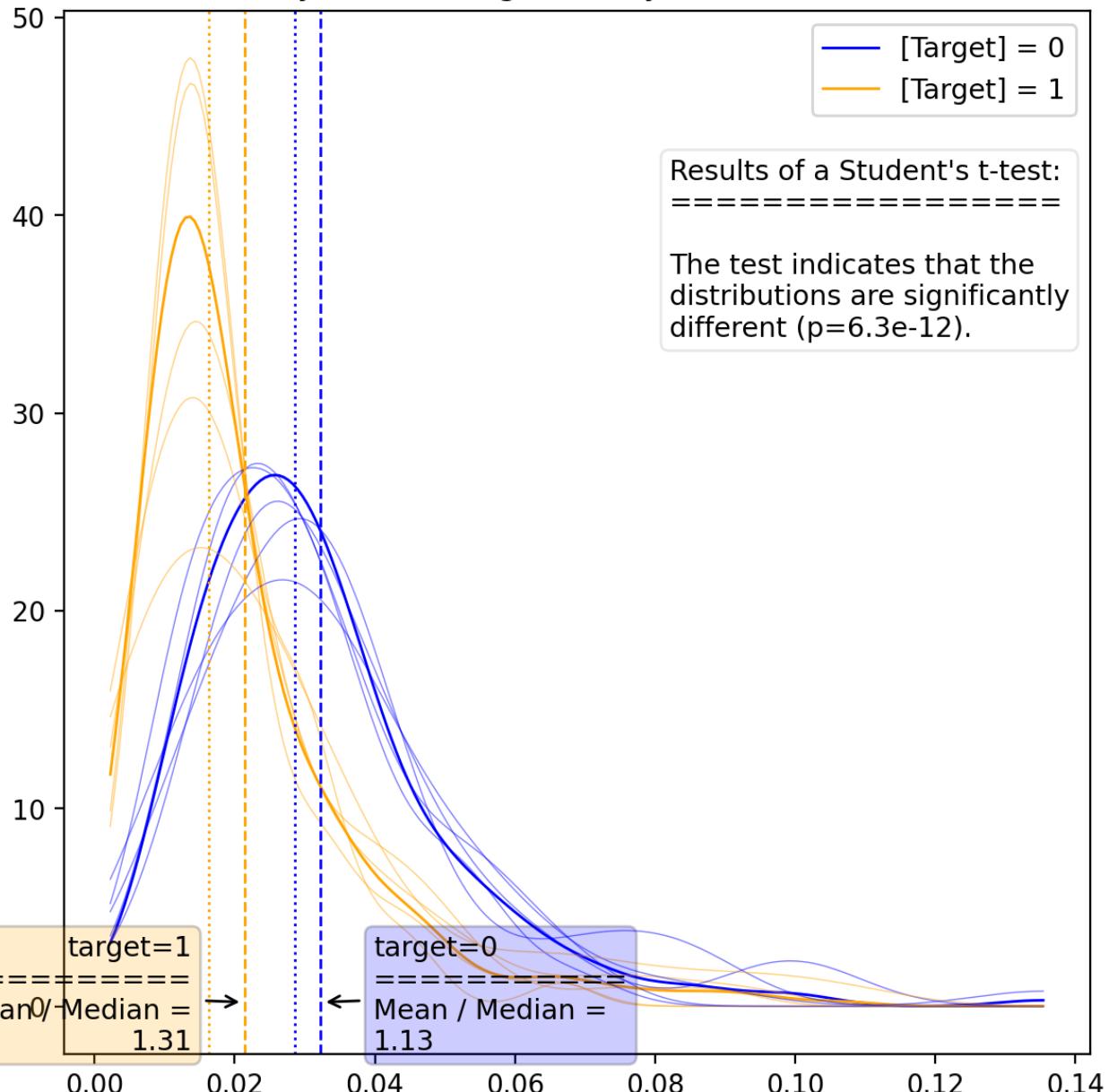
Compactness Error - Results

	Fold-1	Fold-2	Fold-3	Fold-4	Fold-5	Agg. Mean	Agg. SD
Fitted Coef.	1.89	3.31	4.46	2.66	2.22	2.89	1.02
Fitted p-Value	0.531	0.266	0.156	0.370	0.463	0.286	0.150
Fitted Std. Err.	3.02	2.98	3.14	2.96	3.02	2.70	0.07
Conf. Int. Lower	-4.0e+00	-2.5e+00	-1.7e+00	-3.2e+00	-3.7e+00	-2.4e+00	9.3e-01
Conf. Int. Upper	7.82	9.14	10.62	8.47	8.13	8.18	1.11
Train Accuracy	62.4%	62.2%	63.9%	61.4%	63.8%	62.7%	1.1%
Val Accuracy	64.2%	64.9%	58.9%	68.2%	57.6%	62.7%	4.4%
Train AUC	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	0.0%
Val AUC	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	0.0%
Train F1	76.8%	76.7%	77.9%	76.1%	77.9%	77.1%	0.8%
Test F1	78.2%	78.7%	74.1%	81.1%	73.1%	77.1%	3.3%
Train Precision	62.4%	62.2%	63.9%	61.4%	63.8%	62.7%	1.1%
Val Precision	64.2%	64.9%	58.9%	68.2%	57.6%	62.7%	4.4%
Train Recall	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	0.0%
Val Recall	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	0.0%
Train MCC	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Val MCC	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Train Log-Loss	13.57	13.61	13.02	13.90	13.04	13.43	0.38
Val Log-Loss	12.92	12.66	14.81	11.47	15.29	13.43	1.59

Univariate Report

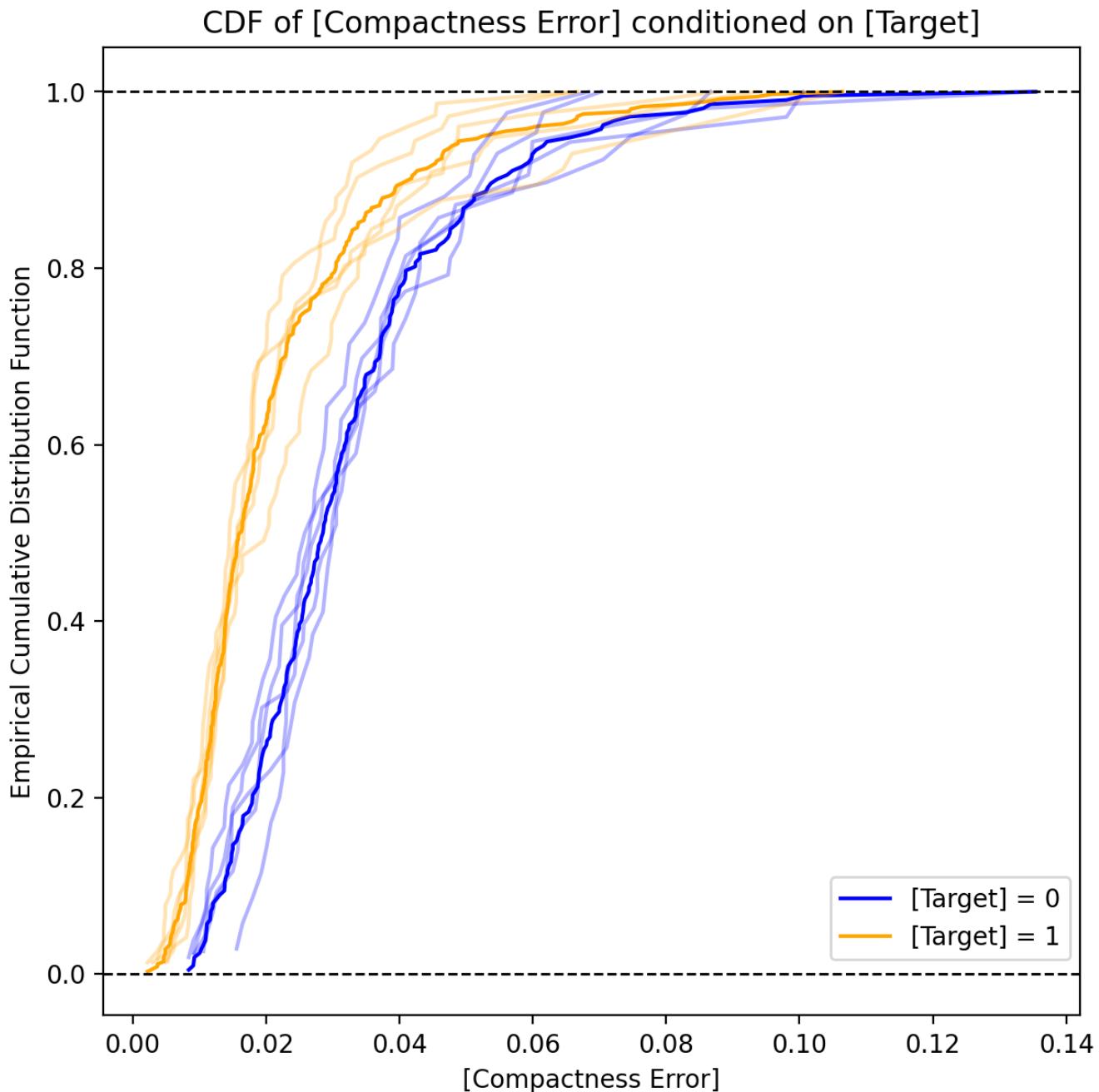
Compactness Error - Kernel Density Plot

Density Plot of [[Compactness Error]] by [[Target]]
Distributions by level are significantly different at the 95% level.



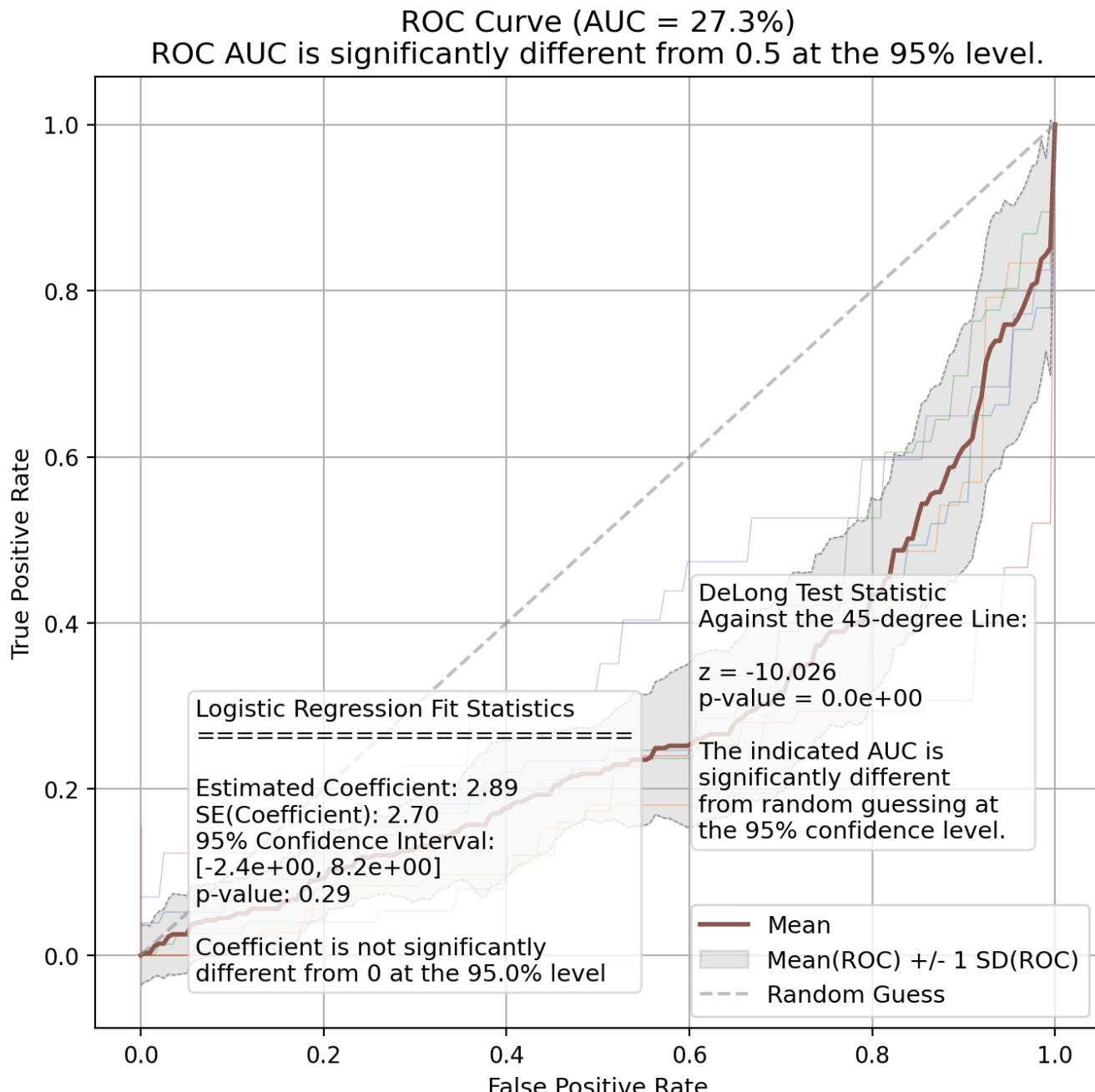
Univariate Report

Compactness Error - Empirical CDF Plot



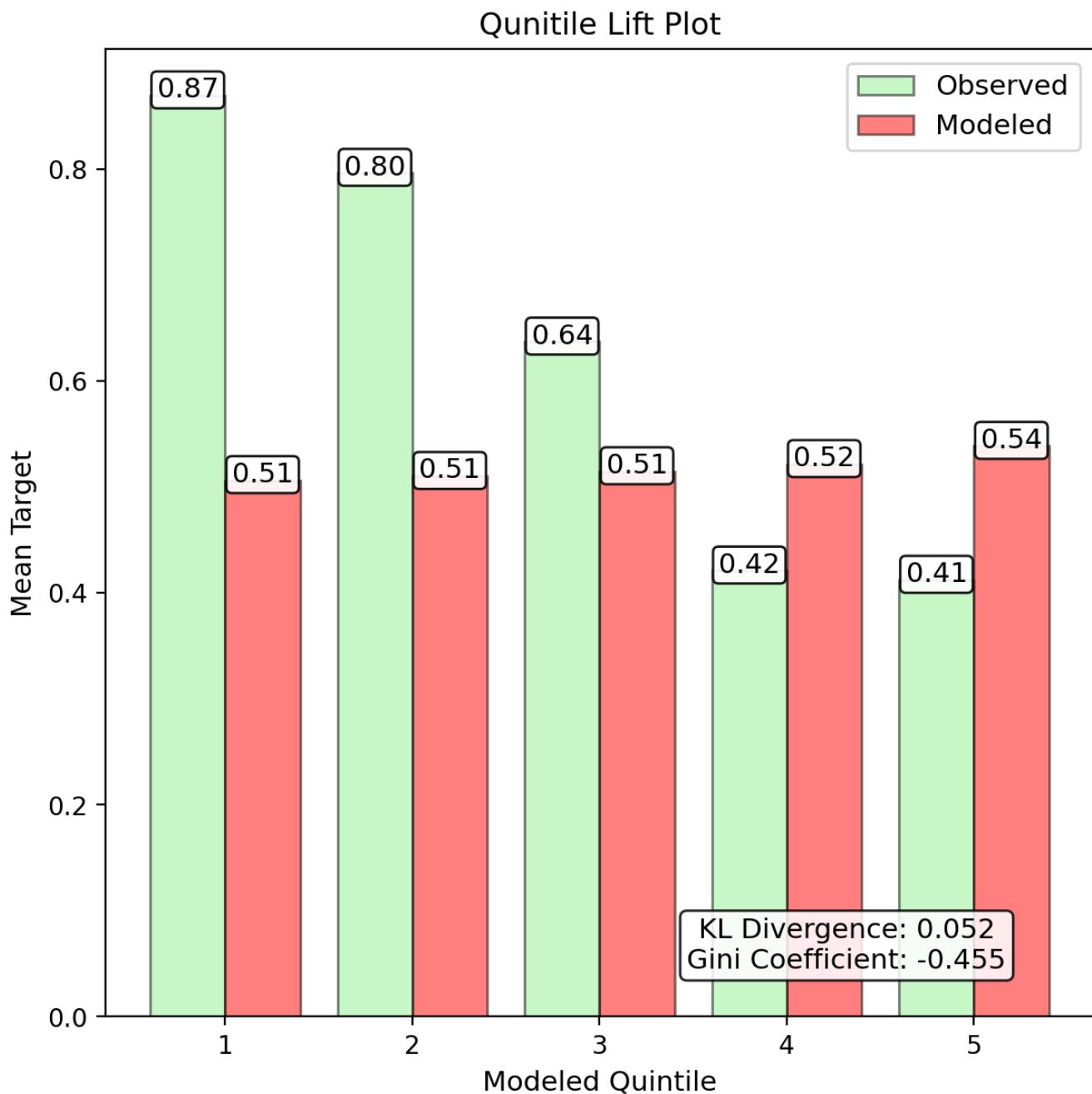
Univariate Report

Compactness Error - ROC Curve



Univariate Report

Compactness Error - Quintile Lift



Univariate Report

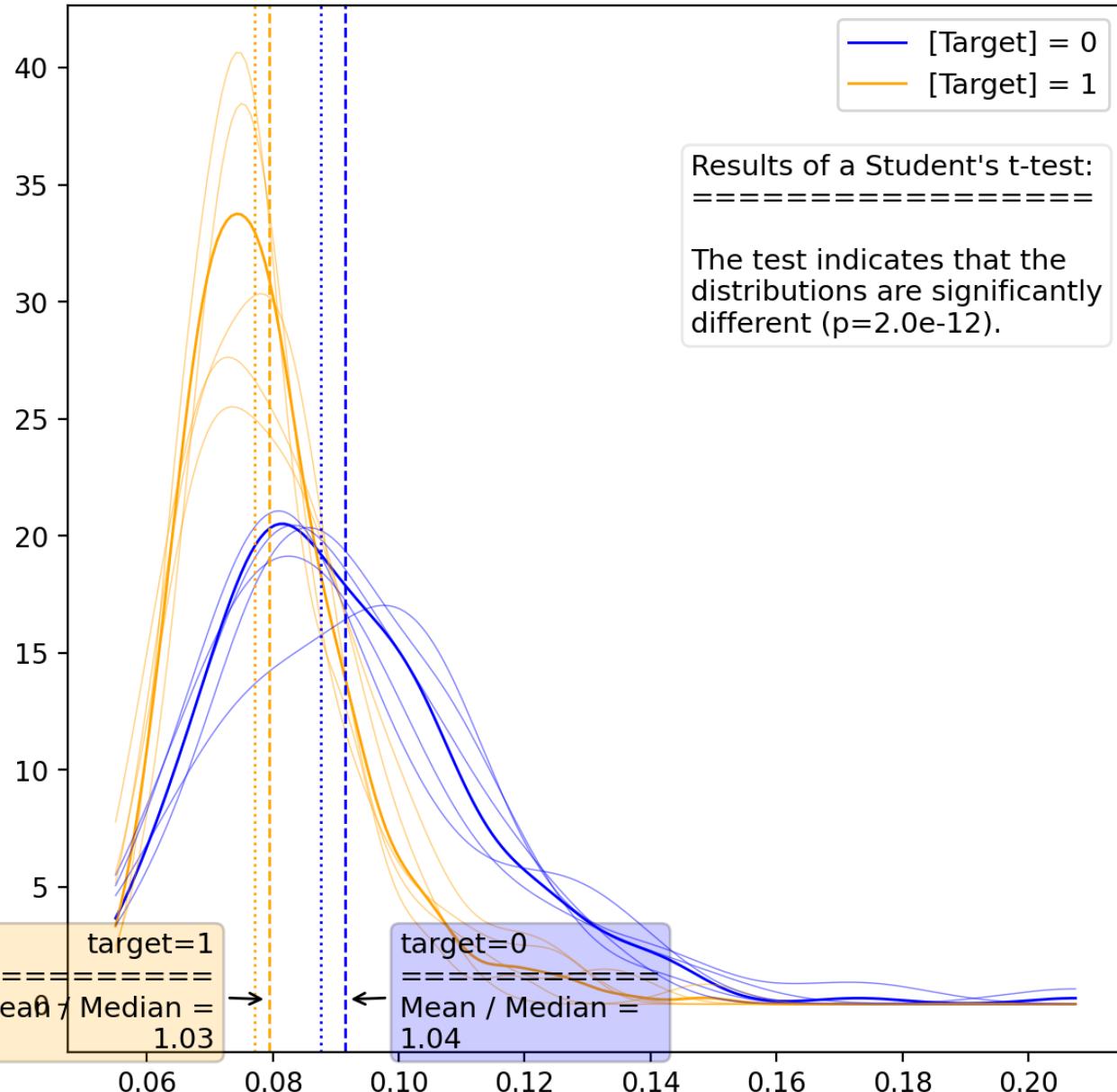
Worst Fractal Dimension - Results

	Fold-1	Fold-2	Fold-3	Fold-4	Fold-5	Agg. Mean	Agg. SD
Fitted Coef.	4.08	4.17	4.78	3.55	4.66	4.24	0.49
Fitted p-Value	2.6e-04	1.7e-04	2.9e-05	1.3e-03	2.5e-05	2.1e-05	5.2e-04
Fitted Std. Err.	1.12	1.11	1.14	1.10	1.10	1.00	0.02
Conf. Int. Lower	1.89	2.00	2.54	1.39	2.49	2.29	0.47
Conf. Int. Upper	6.27	6.34	7.02	5.70	6.82	6.19	0.51
Train Accuracy	62.4%	62.2%	63.9%	61.4%	63.8%	62.7%	1.1%
Val Accuracy	64.2%	64.9%	58.9%	68.2%	57.6%	62.7%	4.4%
Train AUC	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	0.0%
Val AUC	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	0.0%
Train F1	76.8%	76.7%	77.9%	76.1%	77.9%	77.1%	0.8%
Test F1	78.2%	78.7%	74.1%	81.1%	73.1%	77.1%	3.3%
Train Precision	62.4%	62.2%	63.9%	61.4%	63.8%	62.7%	1.1%
Val Precision	64.2%	64.9%	58.9%	68.2%	57.6%	62.7%	4.4%
Train Recall	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	0.0%
Val Recall	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	0.0%
Train MCC	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Val MCC	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Train Log-Loss	13.57	13.61	13.02	13.90	13.04	13.43	0.38
Val Log-Loss	12.92	12.66	14.81	11.47	15.29	13.43	1.59

Univariate Report

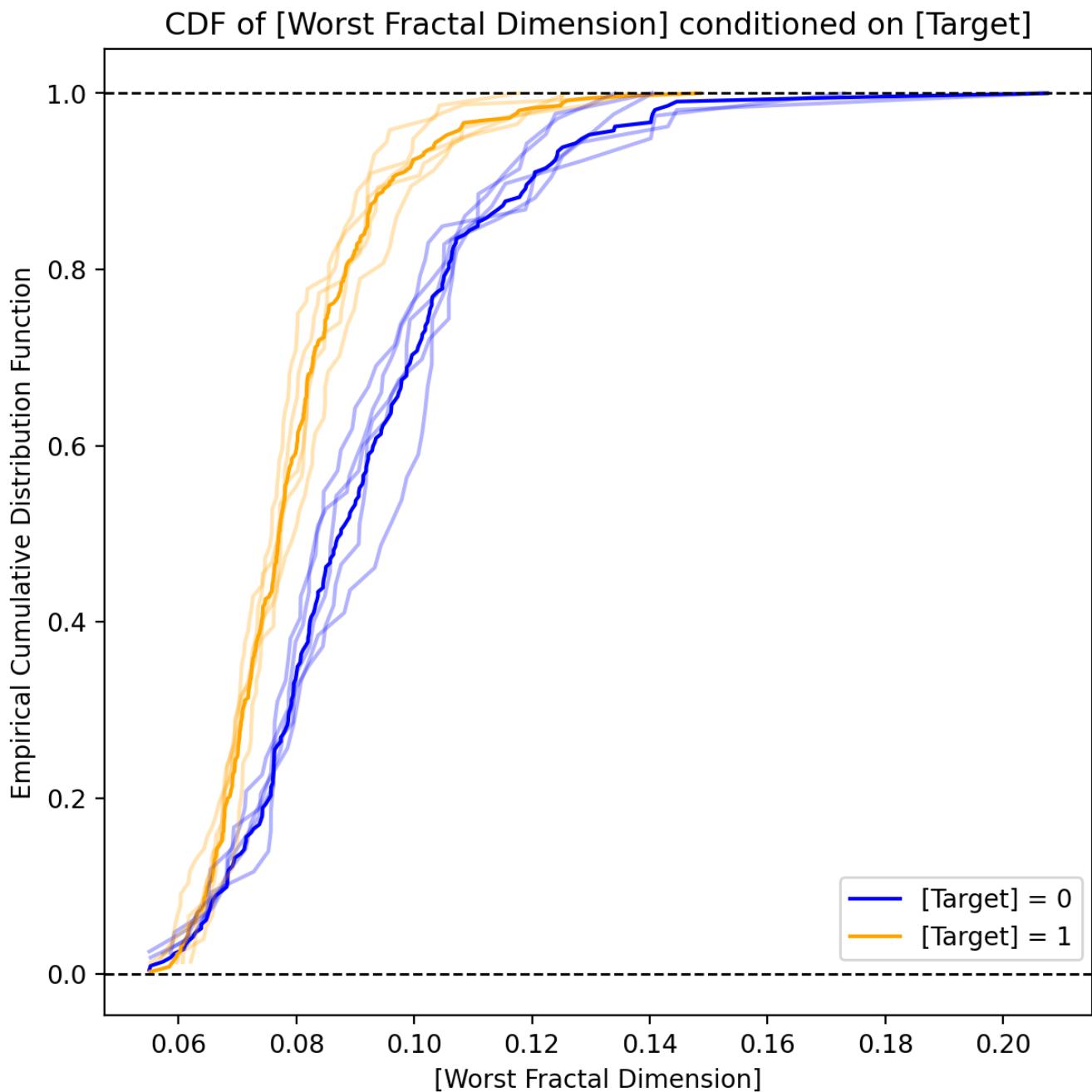
Worst Fractal Dimension - Kernel Density Plot

Density Plot of [[Worst Fractal Dimension]] by [[Target]]
Distributions by level are significantly different at the 95% level.



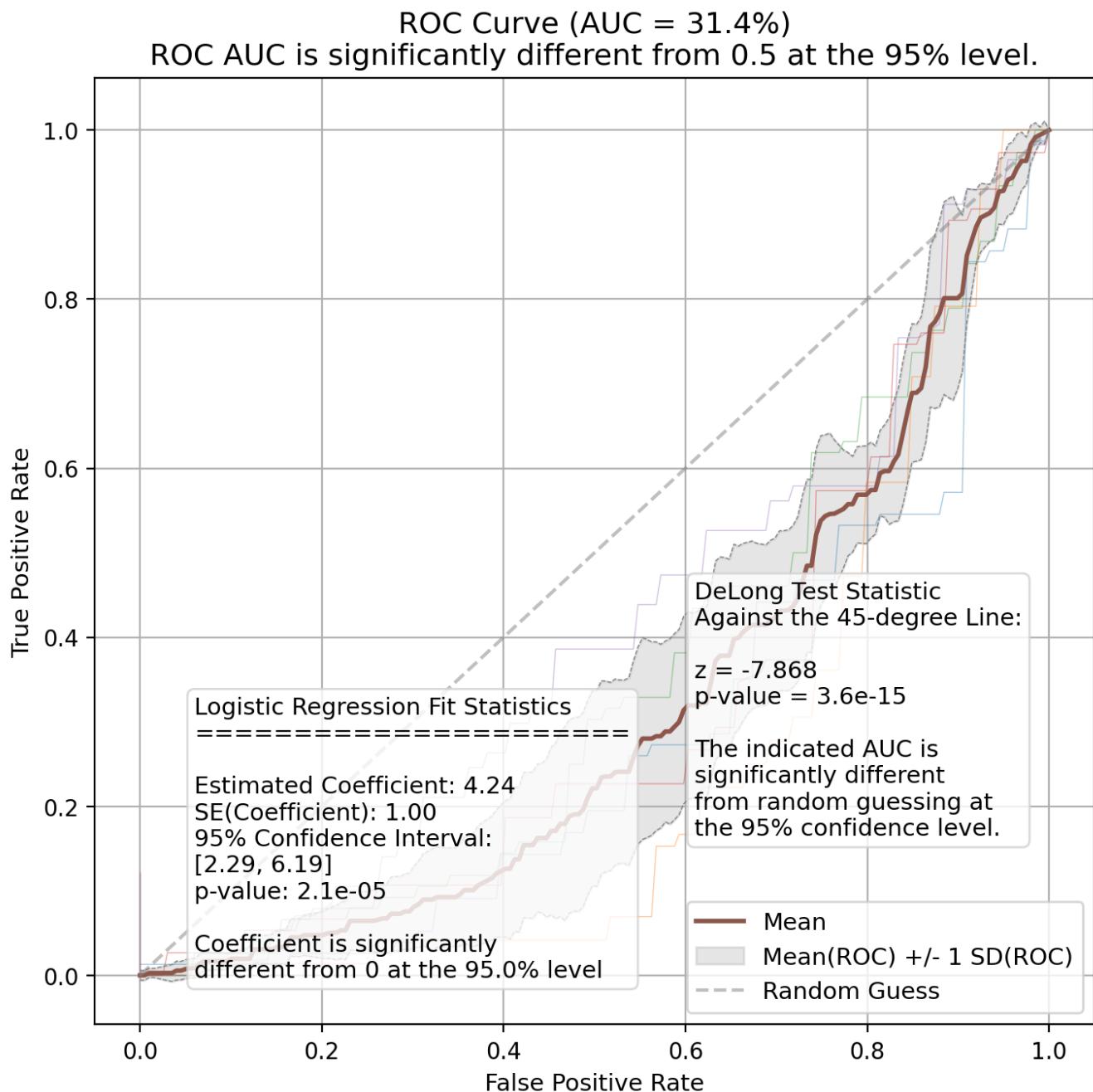
Univariate Report

Worst Fractal Dimension - Empirical CDF Plot



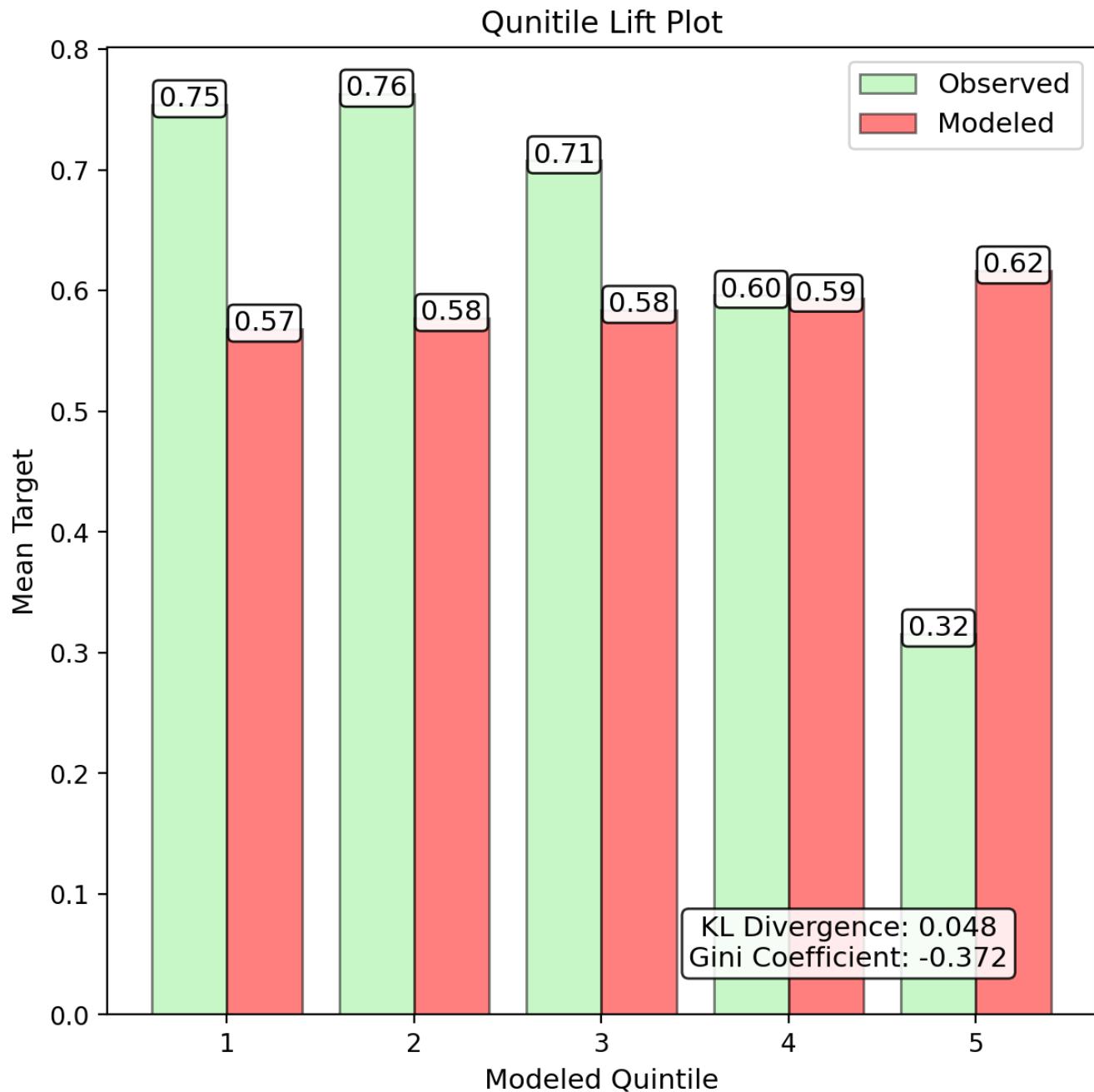
Univariate Report

Worst Fractal Dimension - ROC Curve



Univariate Report

Worst Fractal Dimension - Quintile Lift



Univariate Report

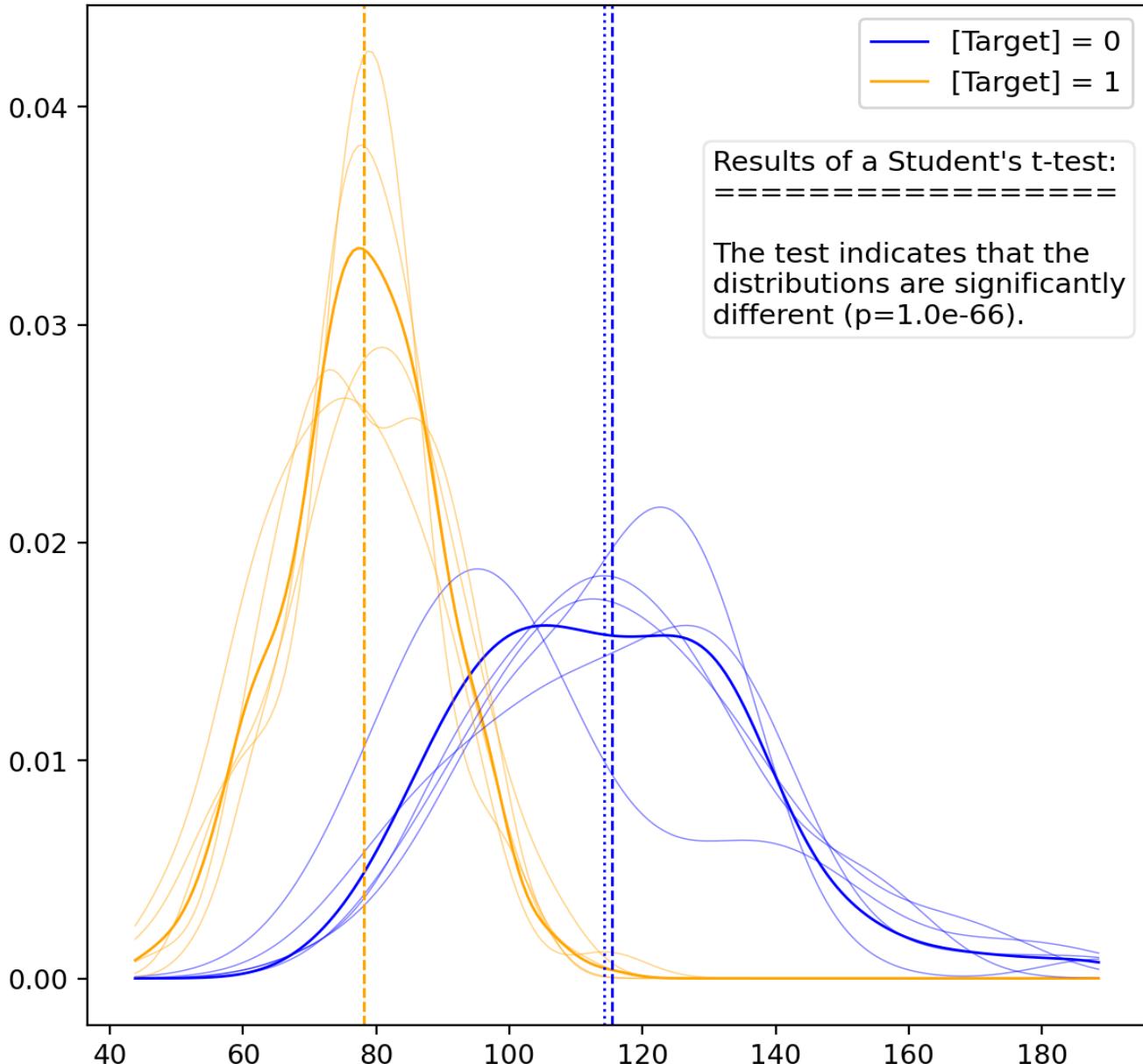
Mean Perimeter - Results

	Fold-1	Fold-2	Fold-3	Fold-4	Fold-5	Agg. Mean	Agg. SD
Fitted Coef.	1.2e-03	9.1e-04	1.8e-03	7.7e-04	1.9e-03	1.3e-03	5.1e-04
Fitted p-Value	0.242	0.351	0.075	0.430	0.054	0.140	0.166
Fitted Std. Err.	9.9e-04	9.8e-04	1.0e-03	9.8e-04	9.8e-04	8.8e-04	1.5e-05
Conf. Int. Lower	-7.8e-04	-1.0e-03	-1.8e-04	-1.1e-03	-3.2e-05	-4.3e-04	5.0e-04
Conf. Int. Upper	3.1e-03	2.8e-03	3.8e-03	2.7e-03	3.8e-03	3.0e-03	5.3e-04
Train Accuracy	62.4%	62.2%	63.9%	61.4%	63.8%	62.7%	1.1%
Val Accuracy	64.2%	64.9%	58.9%	68.2%	57.6%	62.7%	4.4%
Train AUC	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	0.0%
Val AUC	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	0.0%
Train F1	76.8%	76.7%	77.9%	76.1%	77.9%	77.1%	0.8%
Test F1	78.2%	78.7%	74.1%	81.1%	73.1%	77.1%	3.3%
Train Precision	62.4%	62.2%	63.9%	61.4%	63.8%	62.7%	1.1%
Val Precision	64.2%	64.9%	58.9%	68.2%	57.6%	62.7%	4.4%
Train Recall	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	0.0%
Val Recall	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	0.0%
Train MCC	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Val MCC	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Train Log-Loss	13.57	13.61	13.02	13.90	13.04	13.43	0.38
Val Log-Loss	12.92	12.66	14.81	11.47	15.29	13.43	1.59

Univariate Report

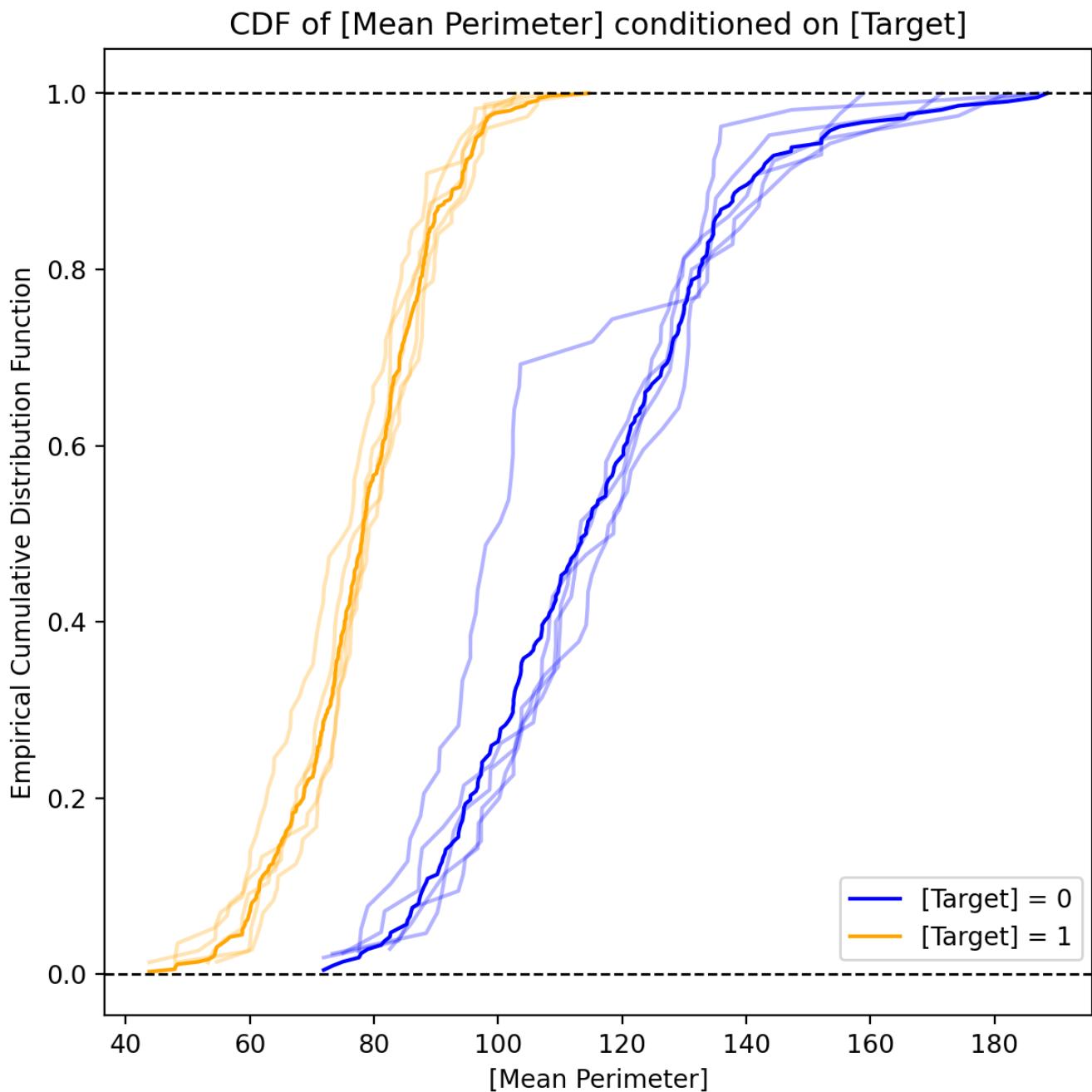
Mean Perimeter - Kernel Density Plot

Density Plot of [[Mean Perimeter]] by [[Target]]
Distributions by level are significantly different at the 95% level.



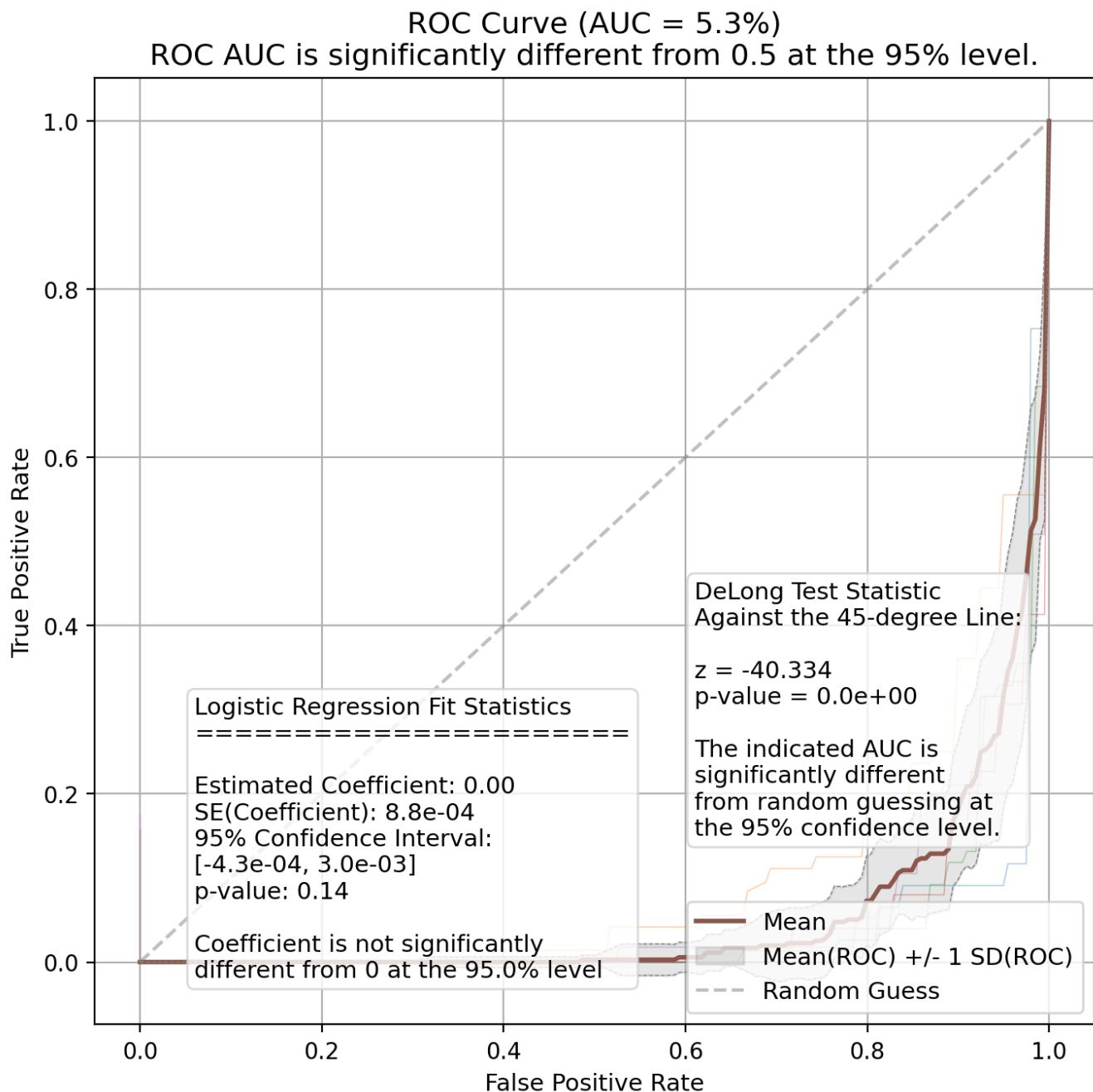
Univariate Report

Mean Perimeter - Empirical CDF Plot



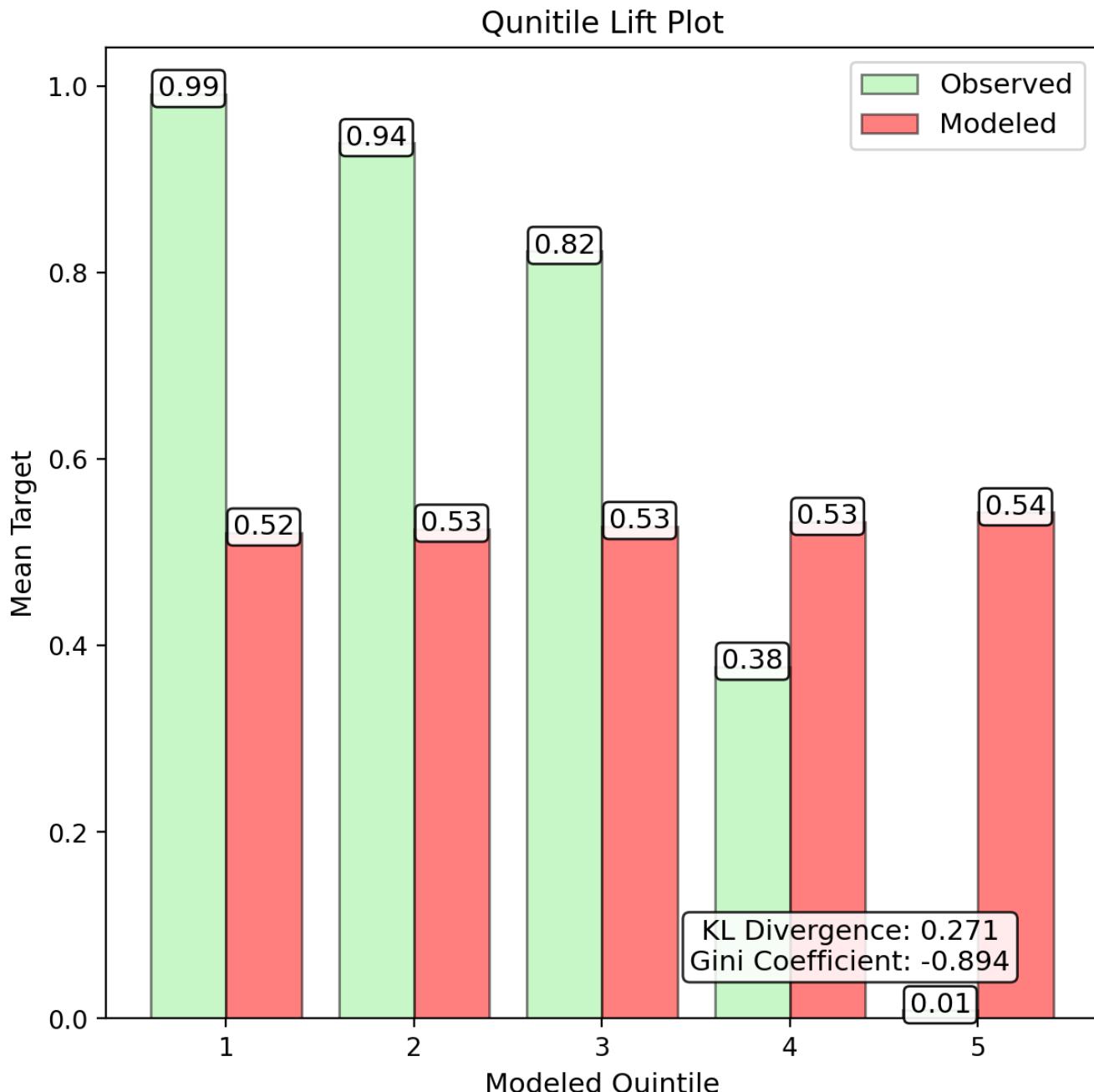
Univariate Report

Mean Perimeter - ROC Curve



Univariate Report

Mean Perimeter - Quintile Lift



Univariate Report

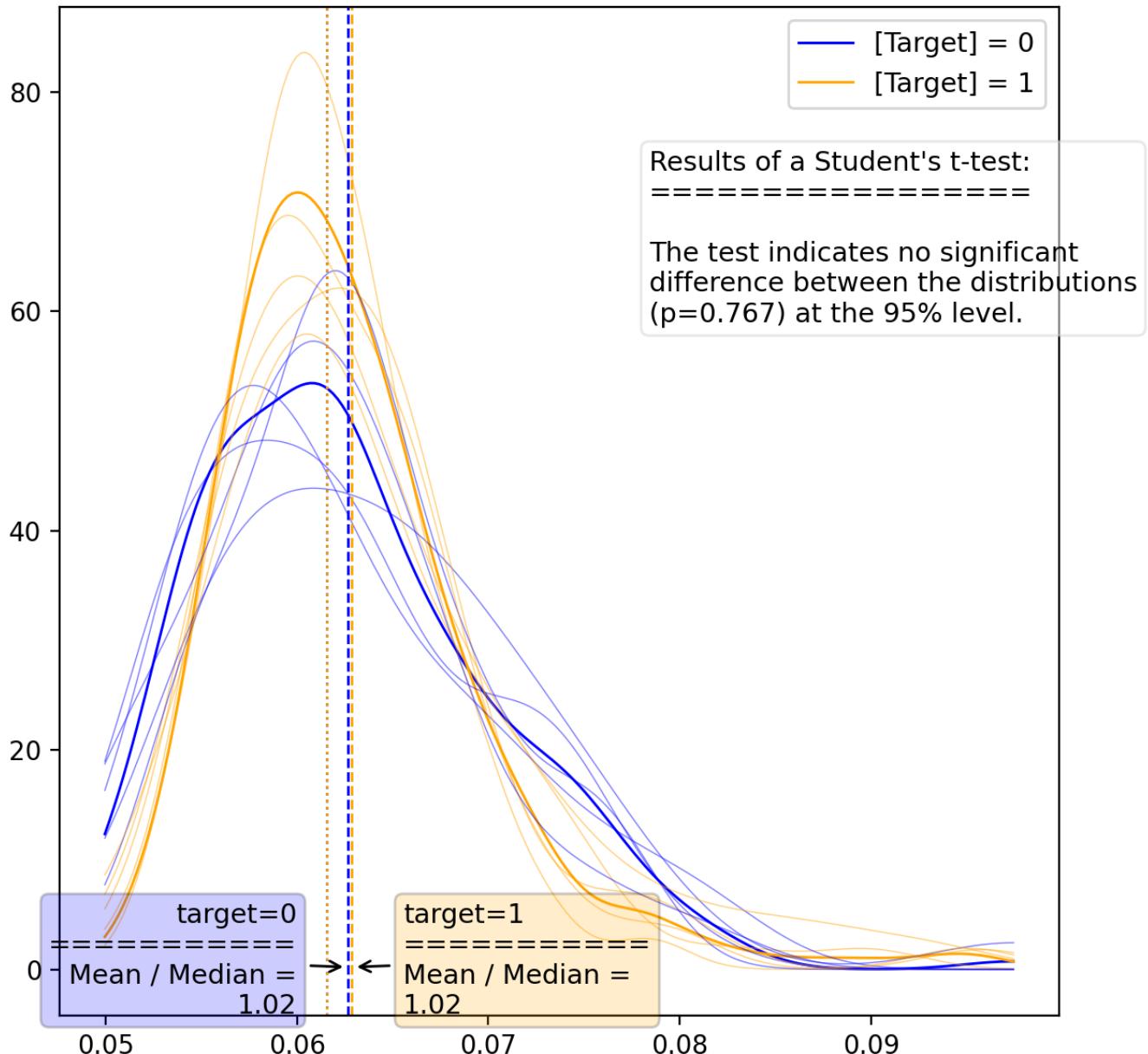
Mean Fractal Dimension - Results

	Fold-1	Fold-2	Fold-3	Fold-4	Fold-5	Agg. Mean	Agg. SD
Fitted Coef.	7.78	7.91	8.78	7.26	8.68	8.08	0.64
Fitted p-Value	4.4e-07	2.3e-07	2.2e-08	1.8e-06	1.1e-08	4.0e-09	7.3e-07
Fitted Std. Err.	1.54	1.53	1.57	1.52	1.52	1.37	0.02
Conf. Int. Lower	4.76	4.91	5.71	4.28	5.71	5.39	0.62
Conf. Int. Upper	10.80	10.90	11.86	10.23	11.66	10.77	0.67
Train Accuracy	62.4%	62.2%	63.9%	61.4%	63.8%	62.7%	1.1%
Val Accuracy	64.2%	64.9%	58.9%	68.2%	57.6%	62.7%	4.4%
Train AUC	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	0.0%
Val AUC	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	0.0%
Train F1	76.8%	76.7%	77.9%	76.1%	77.9%	77.1%	0.8%
Test F1	78.2%	78.7%	74.1%	81.1%	73.1%	77.1%	3.3%
Train Precision	62.4%	62.2%	63.9%	61.4%	63.8%	62.7%	1.1%
Val Precision	64.2%	64.9%	58.9%	68.2%	57.6%	62.7%	4.4%
Train Recall	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	0.0%
Val Recall	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	0.0%
Train MCC	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Val MCC	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Train Log-Loss	13.57	13.61	13.02	13.90	13.04	13.43	0.38
Val Log-Loss	12.92	12.66	14.81	11.47	15.29	13.43	1.59

Univariate Report

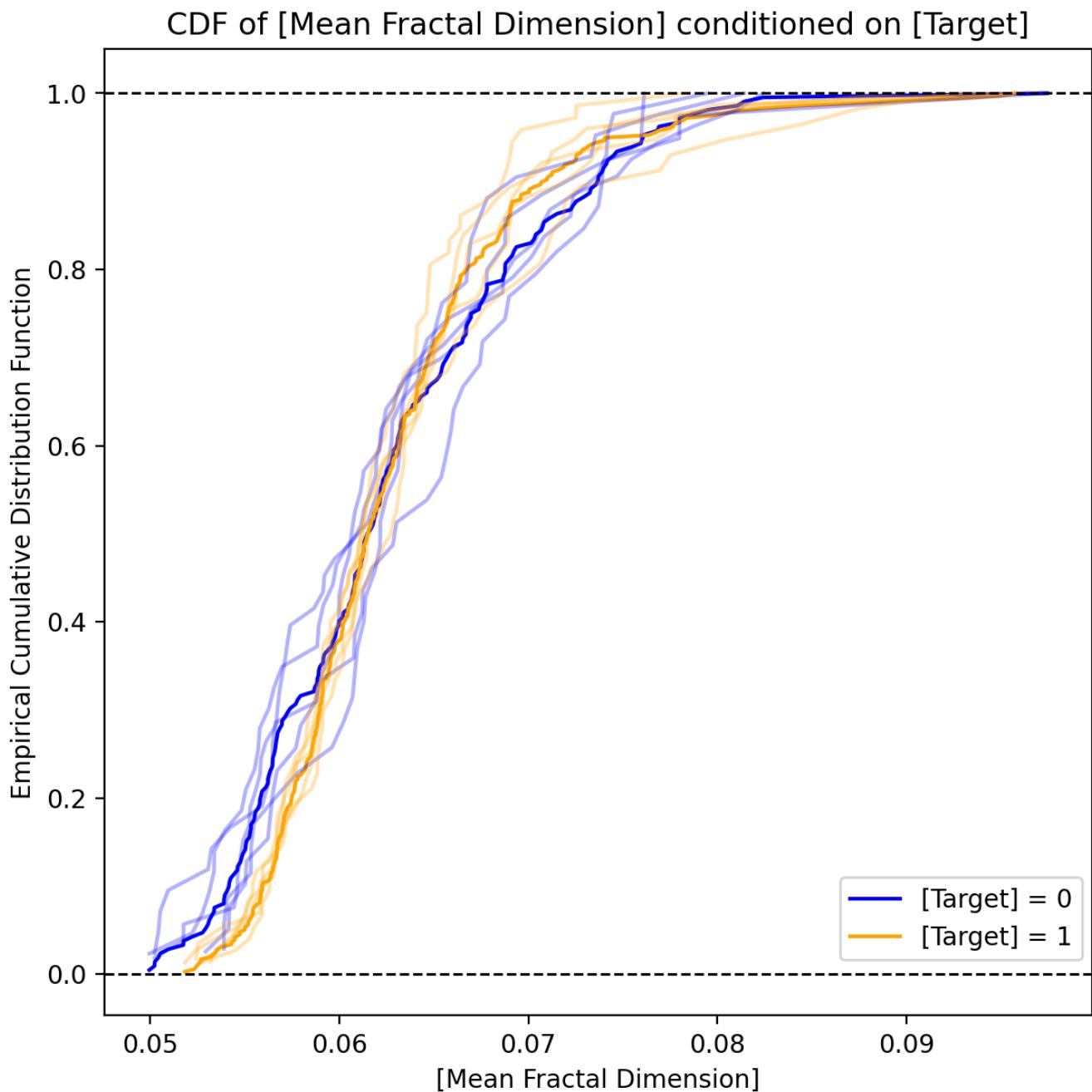
Mean Fractal Dimension - Kernel Density Plot

Density Plot of [[Mean Fractal Dimension]] by [[Target]]
Distributions by level are not significantly different at the 95% level.



Univariate Report

Mean Fractal Dimension - Empirical CDF Plot

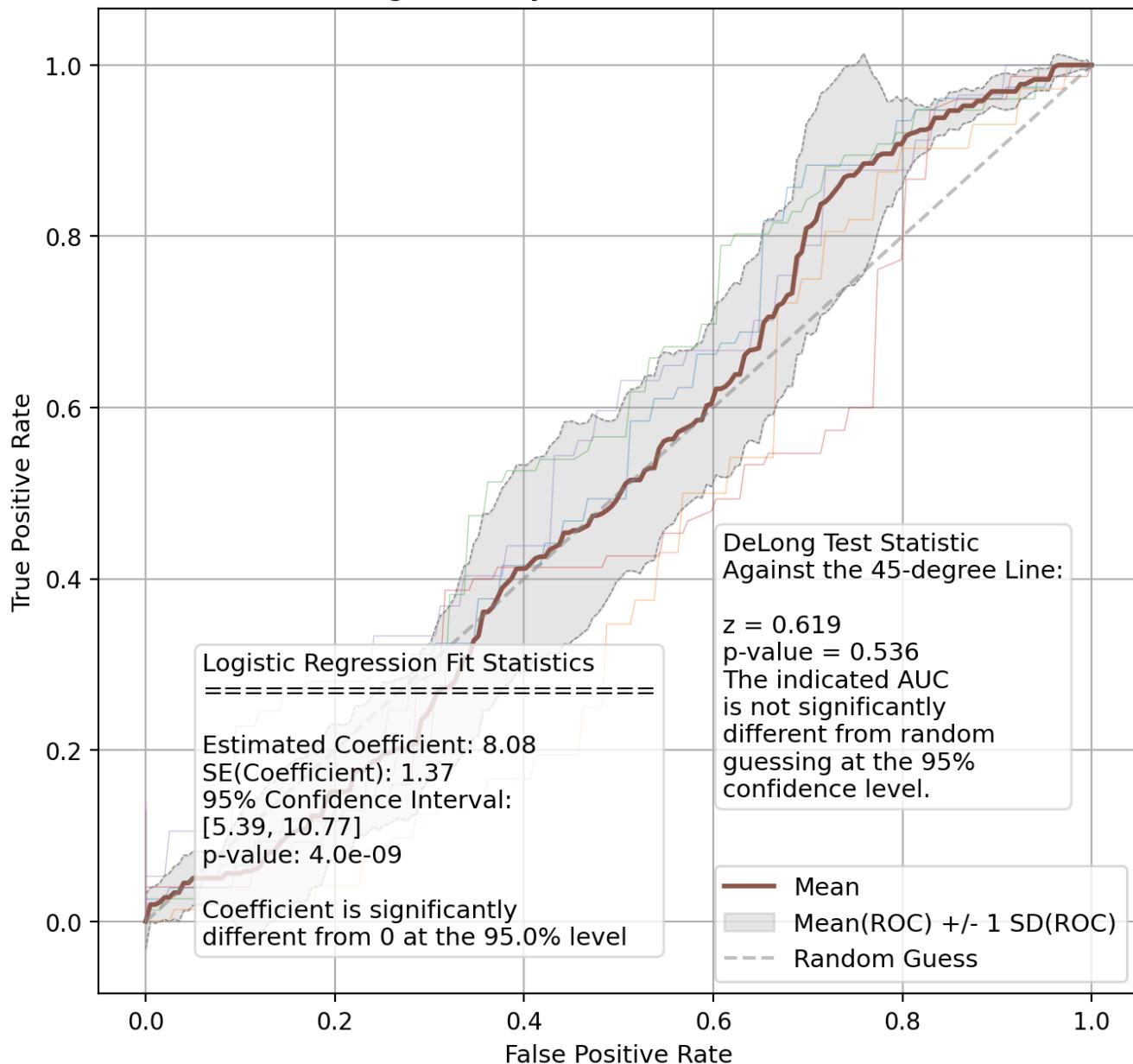


Univariate Report

Mean Fractal Dimension - ROC Curve

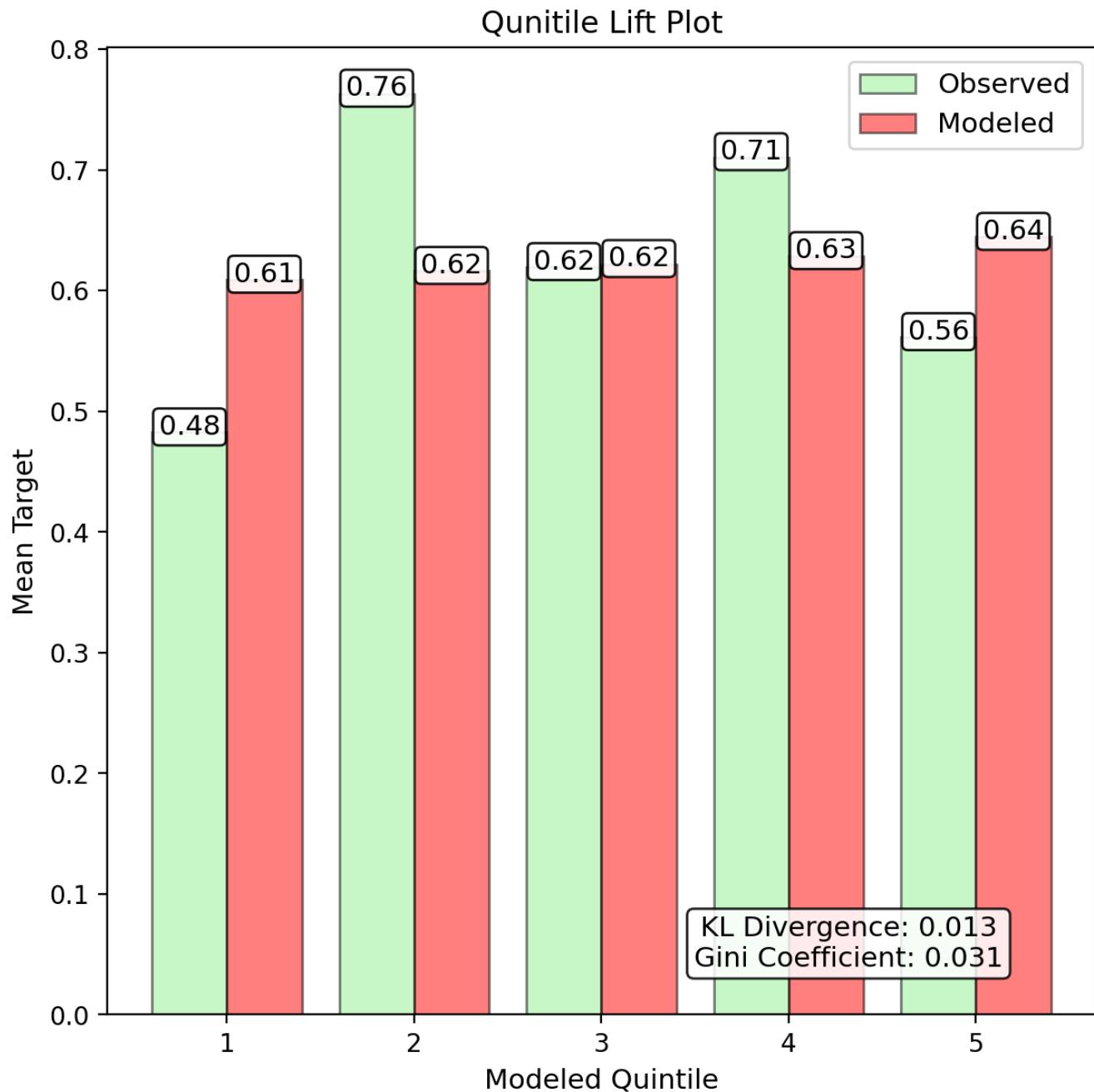
ROC Curve (AUC = 51.5%)

ROC AUC is not significantly different from 50% at the 95% level.



Univariate Report

Mean Fractal Dimension - Quintile Lift



Univariate Report

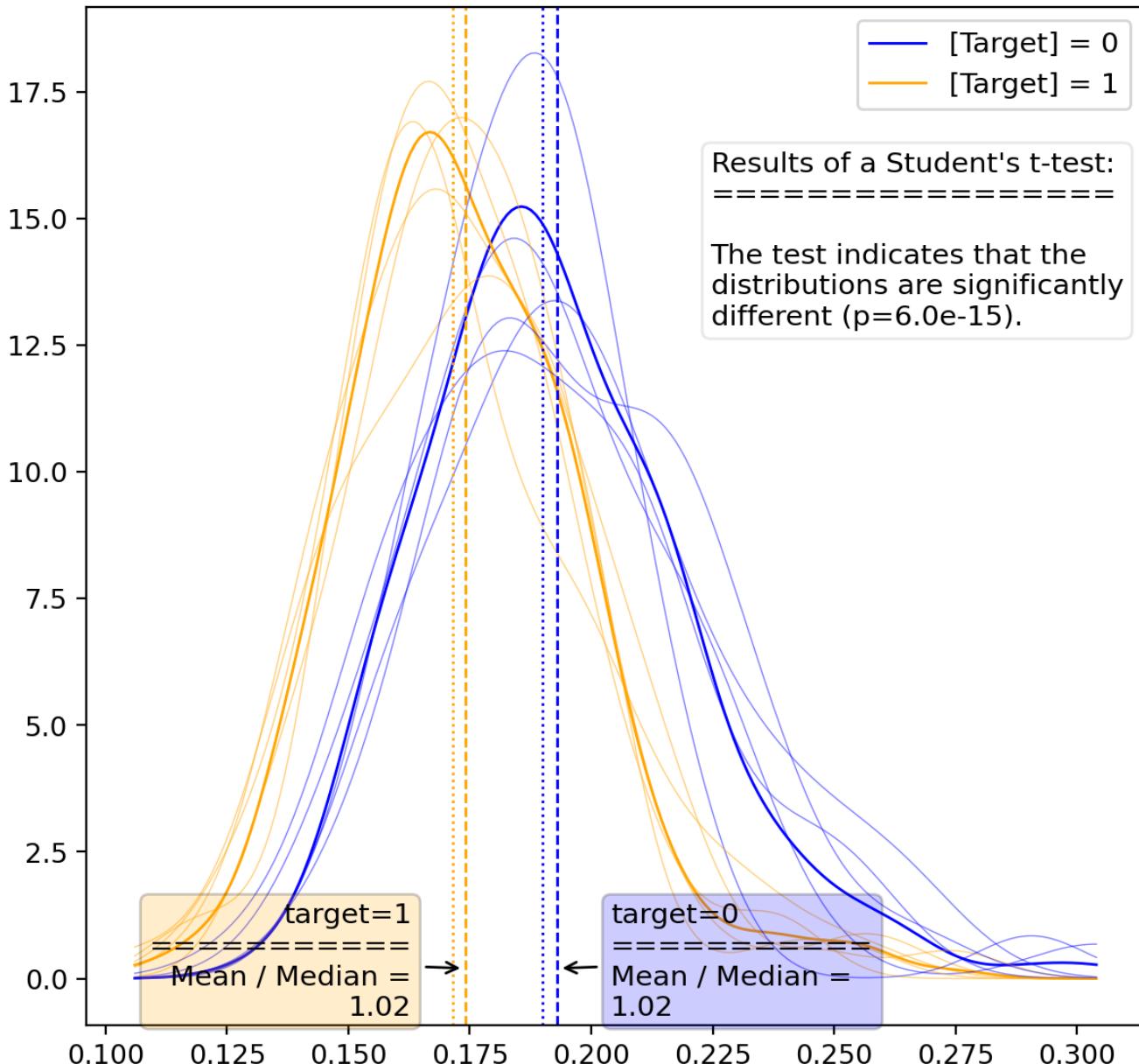
Mean Symmetry - Results

	Fold-1	Fold-2	Fold-3	Fold-4	Fold-5	Agg. Mean	Agg. SD
Fitted Coef.	2.11	2.13	2.45	1.96	2.43	2.22	0.21
Fitted p-Value	6.0e-05	4.5e-05	4.4e-06	1.5e-04	2.5e-06	2.2e-06	6.0e-05
Fitted Std. Err.	0.526	0.523	0.534	0.518	0.516	0.468	0.007
Conf. Int. Lower	1.08	1.11	1.41	0.95	1.42	1.30	0.21
Conf. Int. Upper	3.14	3.16	3.50	2.98	3.44	3.13	0.22
Train Accuracy	62.4%	62.2%	63.9%	61.4%	63.8%	62.7%	1.1%
Val Accuracy	64.2%	64.9%	58.9%	68.2%	57.6%	62.7%	4.4%
Train AUC	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	0.0%
Val AUC	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	0.0%
Train F1	76.8%	76.7%	77.9%	76.1%	77.9%	77.1%	0.8%
Test F1	78.2%	78.7%	74.1%	81.1%	73.1%	77.1%	3.3%
Train Precision	62.4%	62.2%	63.9%	61.4%	63.8%	62.7%	1.1%
Val Precision	64.2%	64.9%	58.9%	68.2%	57.6%	62.7%	4.4%
Train Recall	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	0.0%
Val Recall	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	0.0%
Train MCC	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Val MCC	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Train Log-Loss	13.57	13.61	13.02	13.90	13.04	13.43	0.38
Val Log-Loss	12.92	12.66	14.81	11.47	15.29	13.43	1.59

Univariate Report

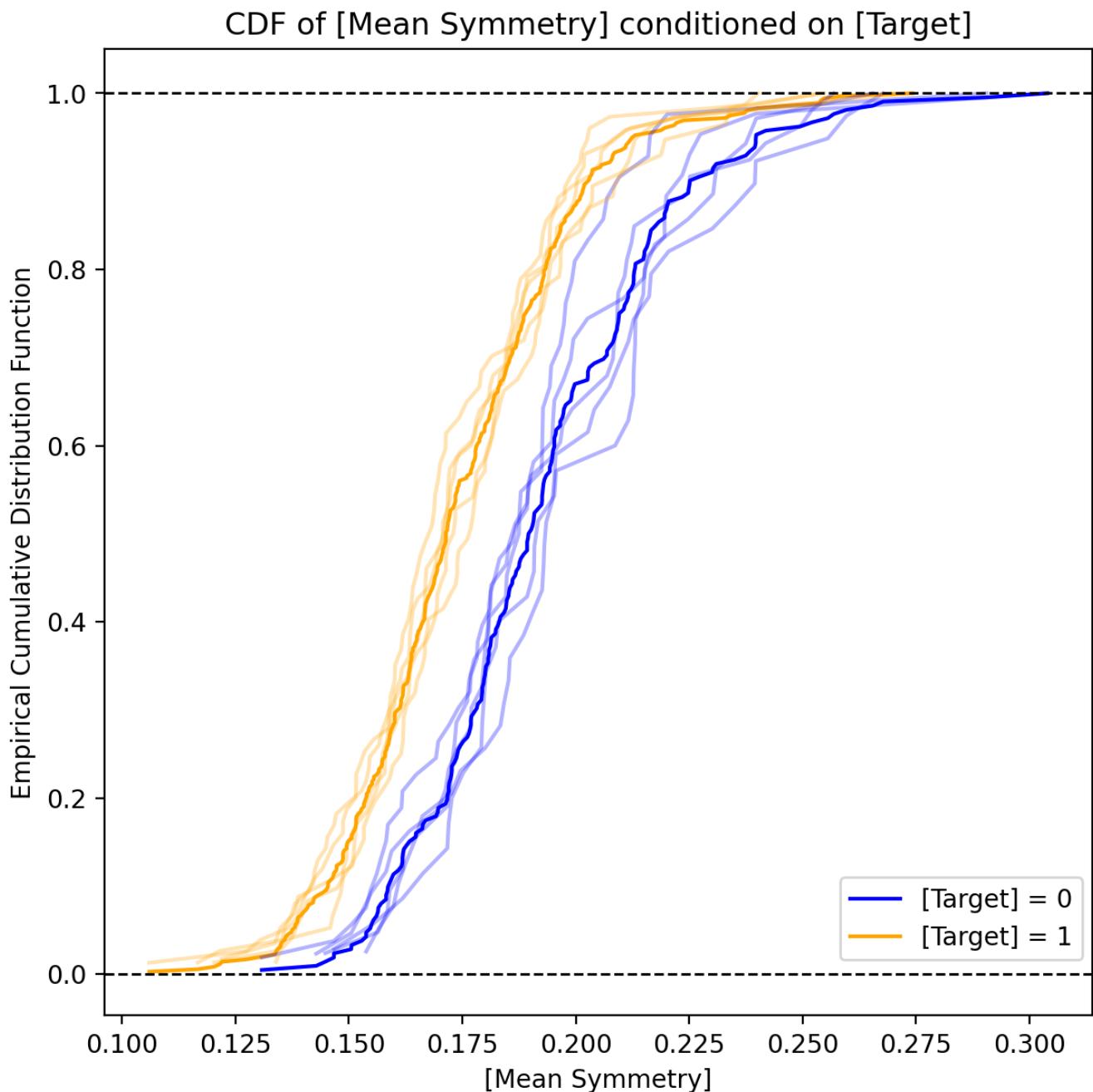
Mean Symmetry - Kernel Density Plot

Density Plot of [[Mean Symmetry]] by [[Target]]
Distributions by level are significantly different at the 95% level.



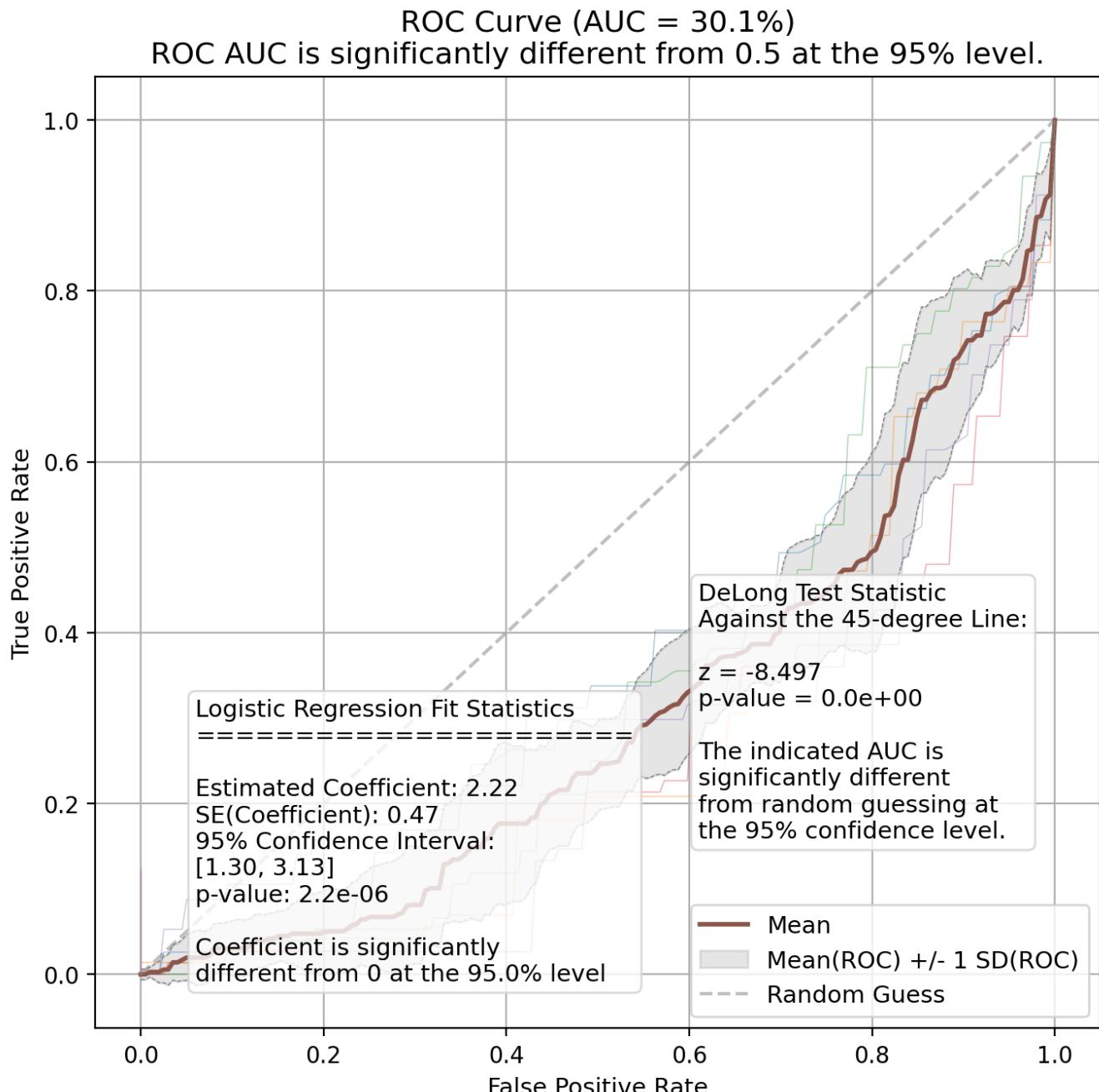
Univariate Report

Mean Symmetry - Empirical CDF Plot



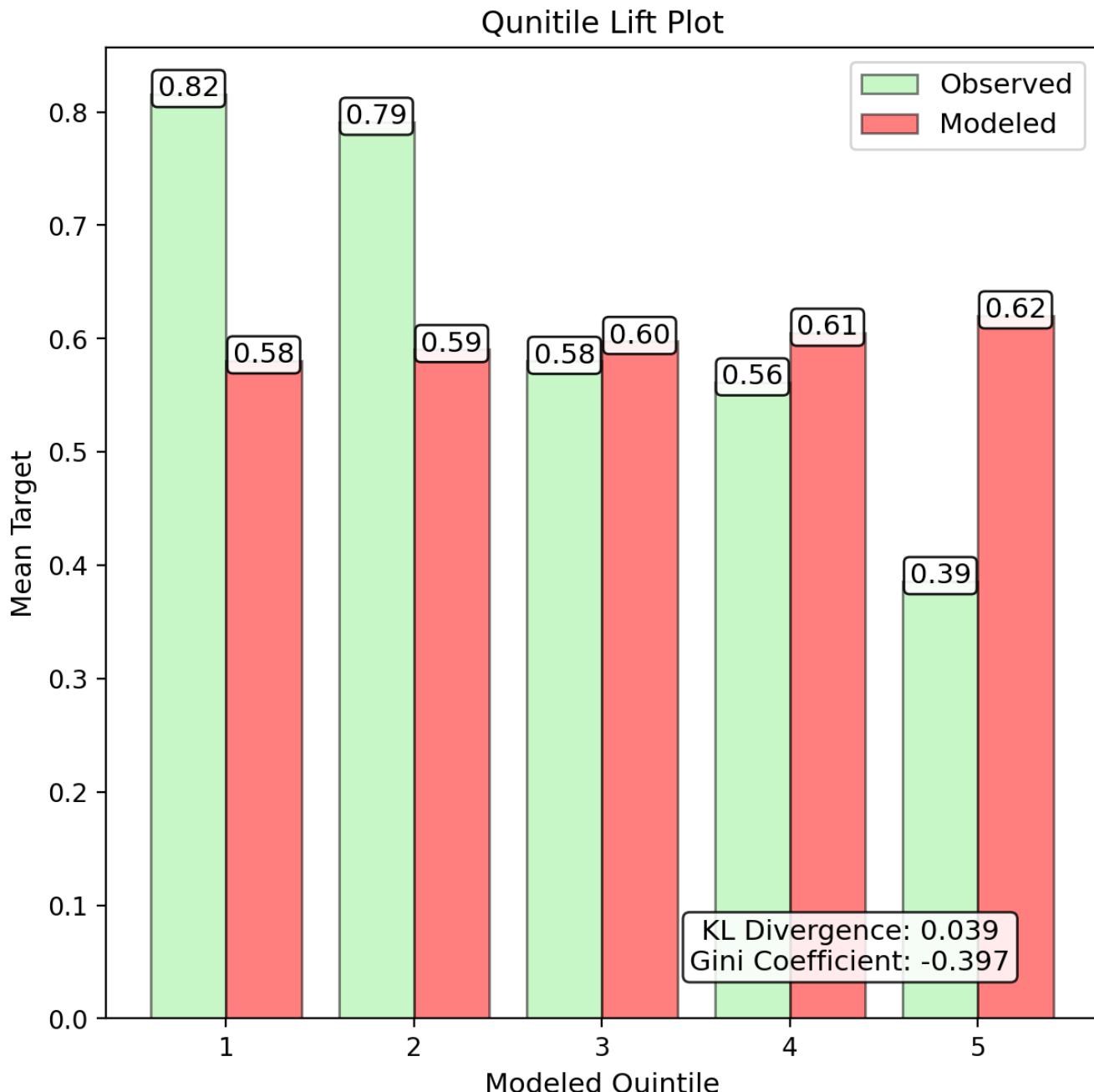
Univariate Report

Mean Symmetry - ROC Curve



Univariate Report

Mean Symmetry - Quintile Lift



Univariate Report

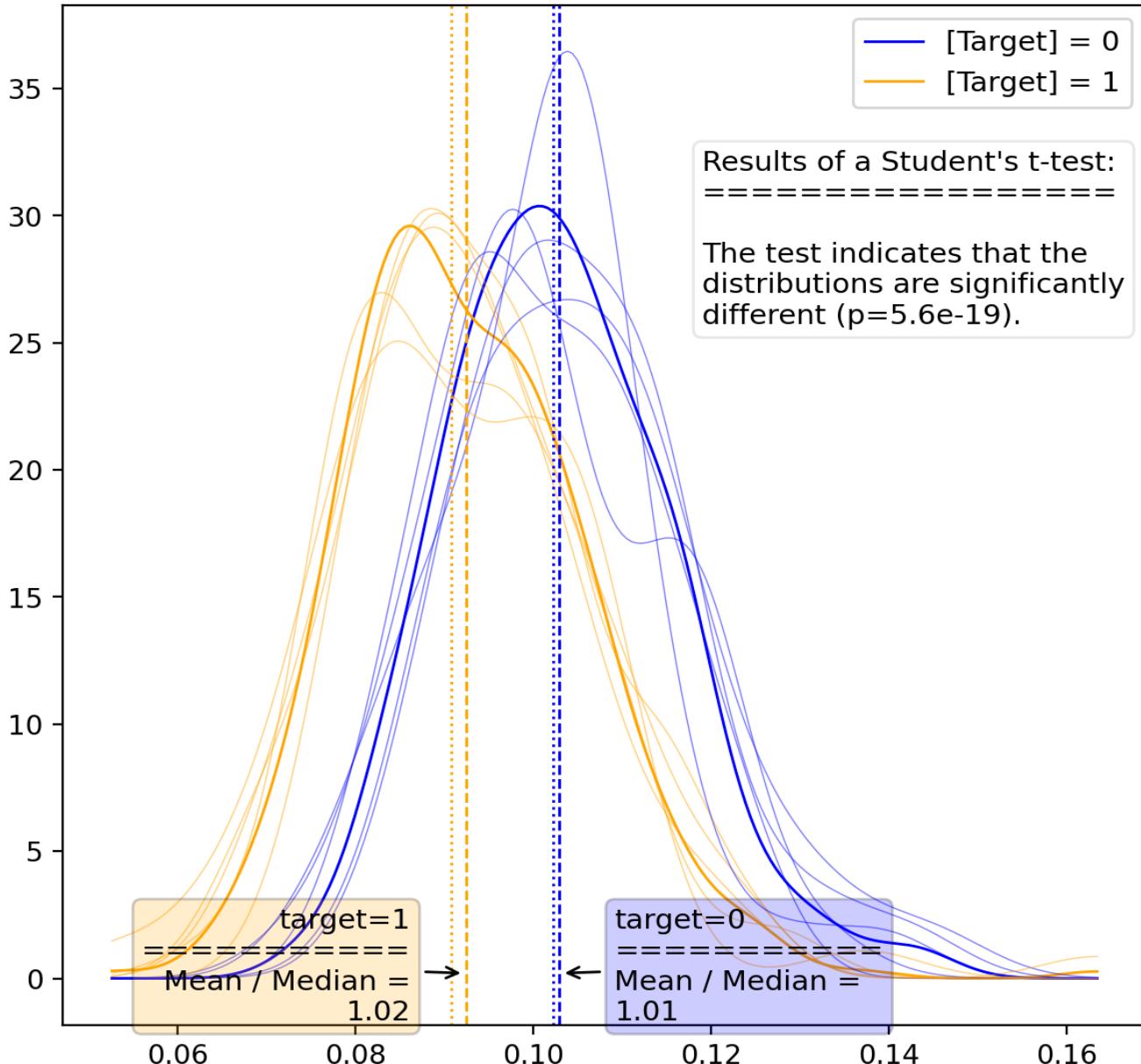
Mean Smoothness - Results

	Fold-1	Fold-2	Fold-3	Fold-4	Fold-5	Agg. Mean	Agg. SD
Fitted Coef.	3.93	3.93	4.55	3.64	4.59	4.13	0.42
Fitted p-Value	6.8e-05	6.4e-05	5.7e-06	1.9e-04	2.3e-06	2.7e-06	7.8e-05
Fitted Std. Err.	0.987	0.983	1.004	0.977	0.971	0.880	0.012
Conf. Int. Lower	2.00	2.00	2.59	1.73	2.68	2.40	0.42
Conf. Int. Upper	5.87	5.85	6.52	5.55	6.49	5.85	0.43
Train Accuracy	62.4%	62.2%	63.9%	61.4%	63.8%	62.7%	1.1%
Val Accuracy	64.2%	64.9%	58.9%	68.2%	57.6%	62.7%	4.4%
Train AUC	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	0.0%
Val AUC	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	0.0%
Train F1	76.8%	76.7%	77.9%	76.1%	77.9%	77.1%	0.8%
Test F1	78.2%	78.7%	74.1%	81.1%	73.1%	77.1%	3.3%
Train Precision	62.4%	62.2%	63.9%	61.4%	63.8%	62.7%	1.1%
Val Precision	64.2%	64.9%	58.9%	68.2%	57.6%	62.7%	4.4%
Train Recall	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	0.0%
Val Recall	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	0.0%
Train MCC	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Val MCC	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Train Log-Loss	13.57	13.61	13.02	13.90	13.04	13.43	0.38
Val Log-Loss	12.92	12.66	14.81	11.47	15.29	13.43	1.59

Univariate Report

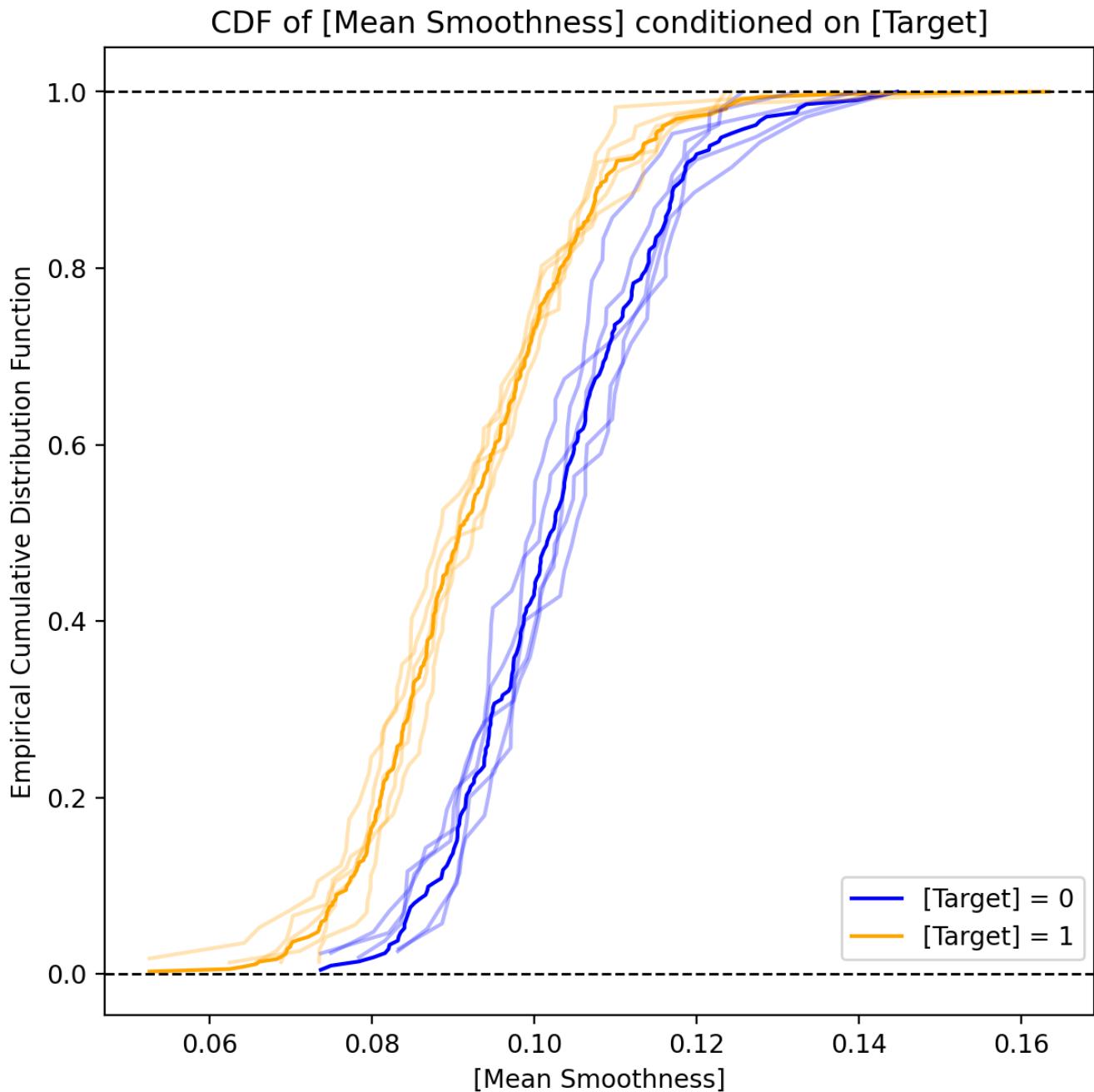
Mean Smoothness - Kernel Density Plot

Density Plot of [[Mean Smoothness]] by [[Target]]
Distributions by level are significantly different at the 95% level.



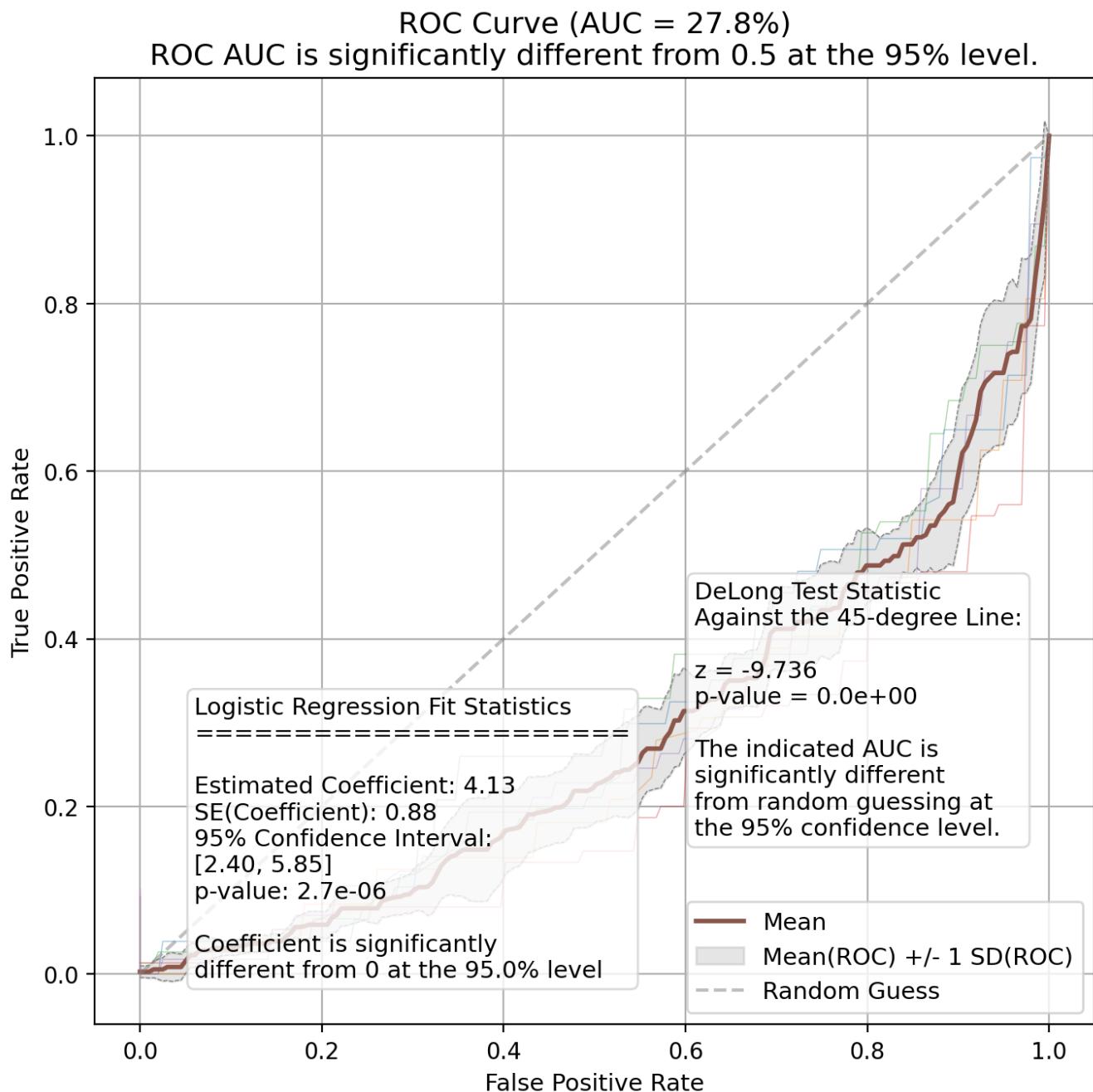
Univariate Report

Mean Smoothness - Empirical CDF Plot



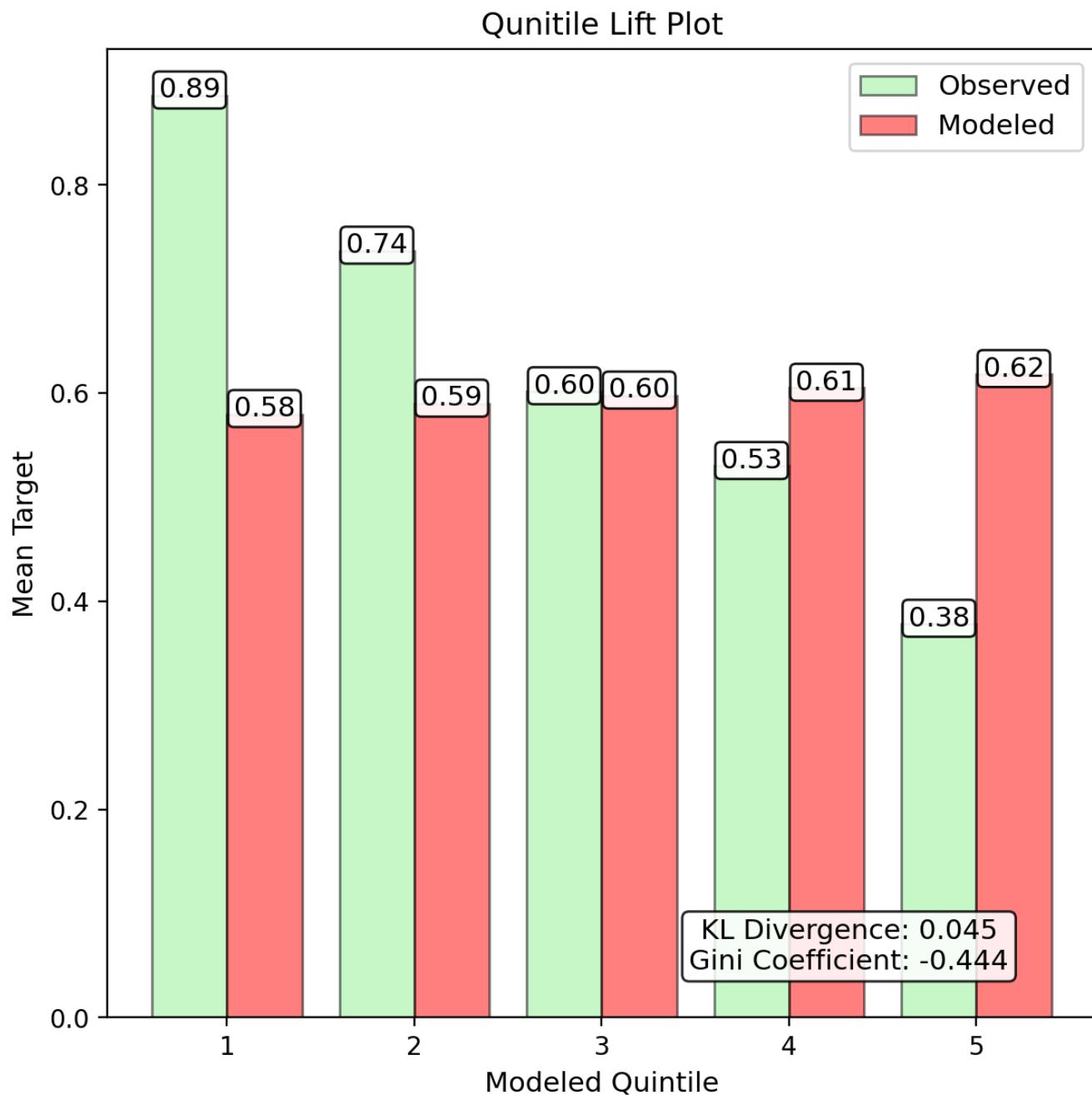
Univariate Report

Mean Smoothness - ROC Curve



Univariate Report

Mean Smoothness - Quintile Lift



Univariate Report

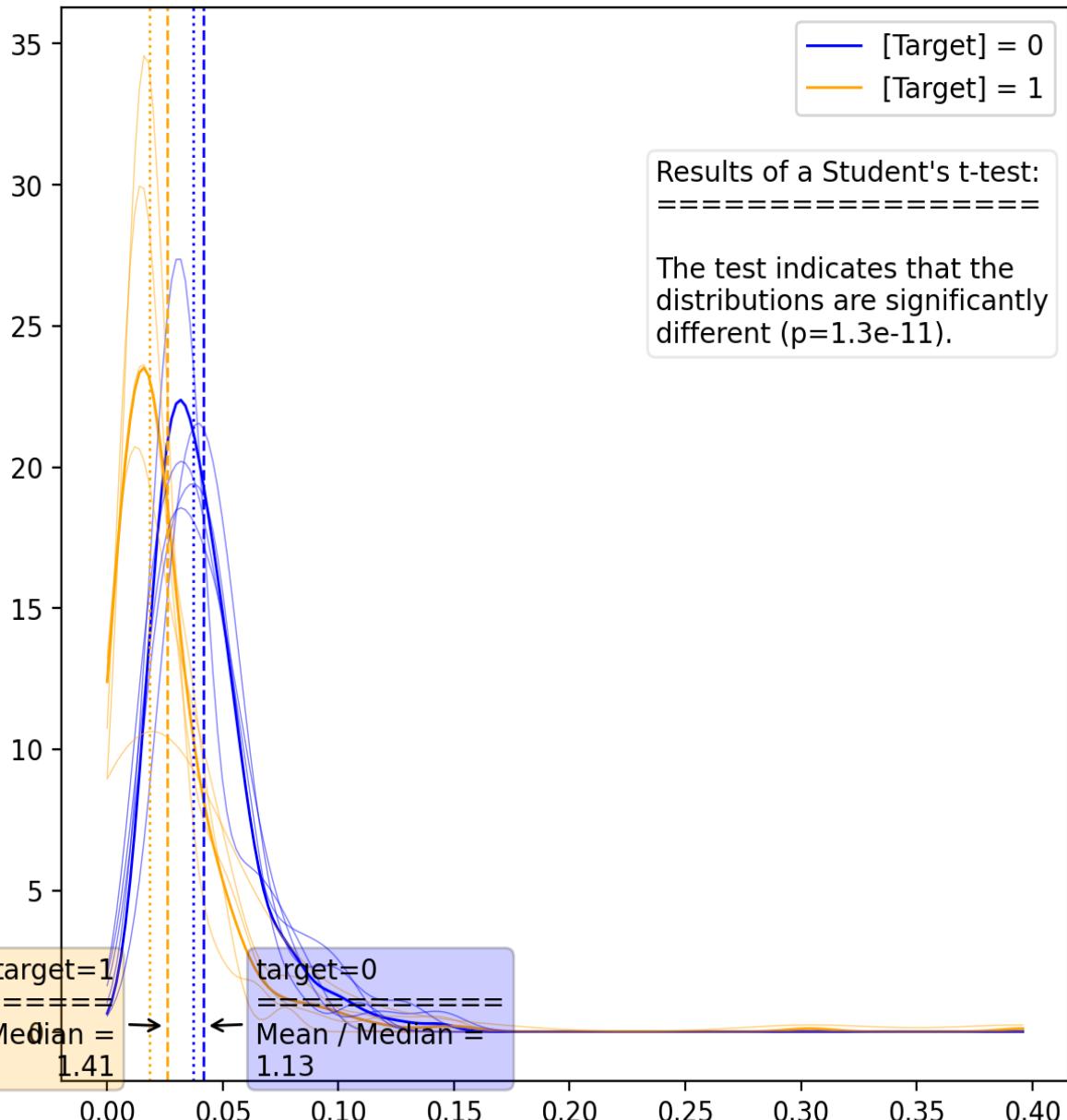
Concavity Error - Results

	Fold-1	Fold-2	Fold-3	Fold-4	Fold-5	Agg. Mean	Agg. SD
Fitted Coef.	0.075	1.109	1.817	1.009	-0.588	0.742	0.943
Fitted p-Value	0.971	0.591	0.403	0.625	0.808	0.699	0.217
Fitted Std. Err.	2.07	2.06	2.17	2.06	2.43	1.91	0.16
Conf. Int. Lower	-4.0e+00	-2.9e+00	-2.4e+00	-3.0e+00	-5.3e+00	-3.0e+00	1.1e+00
Conf. Int. Upper	4.14	5.15	6.08	5.05	4.16	4.49	0.80
Train Accuracy	60.1%	59.6%	61.8%	59.0%	36.2%	60.5%	10.8%
Val Accuracy	61.7%	64.0%	55.8%	66.4%	42.4%	60.5%	9.6%
Train AUC	48.2%	47.9%	48.4%	48.0%	50.0%	48.2%	0.9%
Val AUC	48.1%	49.3%	47.4%	48.7%	50.0%	48.2%	1.0%
Train F1	75.1%	74.7%	76.4%	74.2%	0.0%	75.4%	33.6%
Test F1	76.3%	78.0%	71.6%	79.8%	0.0%	75.4%	34.3%
Train Precision	61.5%	61.2%	63.1%	60.5%	0.0%	61.9%	27.6%
Val Precision	63.2%	64.5%	57.6%	67.6%	0.0%	61.9%	28.5%
Train Recall	96.4%	95.8%	96.8%	96.1%	0.0%	96.4%	43.1%
Val Recall	96.1%	98.6%	94.7%	97.3%	0.0%	96.4%	43.3%
Train MCC	-11.7%	-12.8%	-10.9%	-12.4%	0.0%	-11.8%	5.4%
Val MCC	-12.0%	-7.0%	-14.9%	-9.3%	0.0%	-11.8%	5.7%
Train Log-Loss	14.37	14.56	13.76	14.76	23.01	14.25	3.88
Val Log-Loss	13.82	12.99	15.93	12.12	20.75	14.25	3.45

Univariate Report

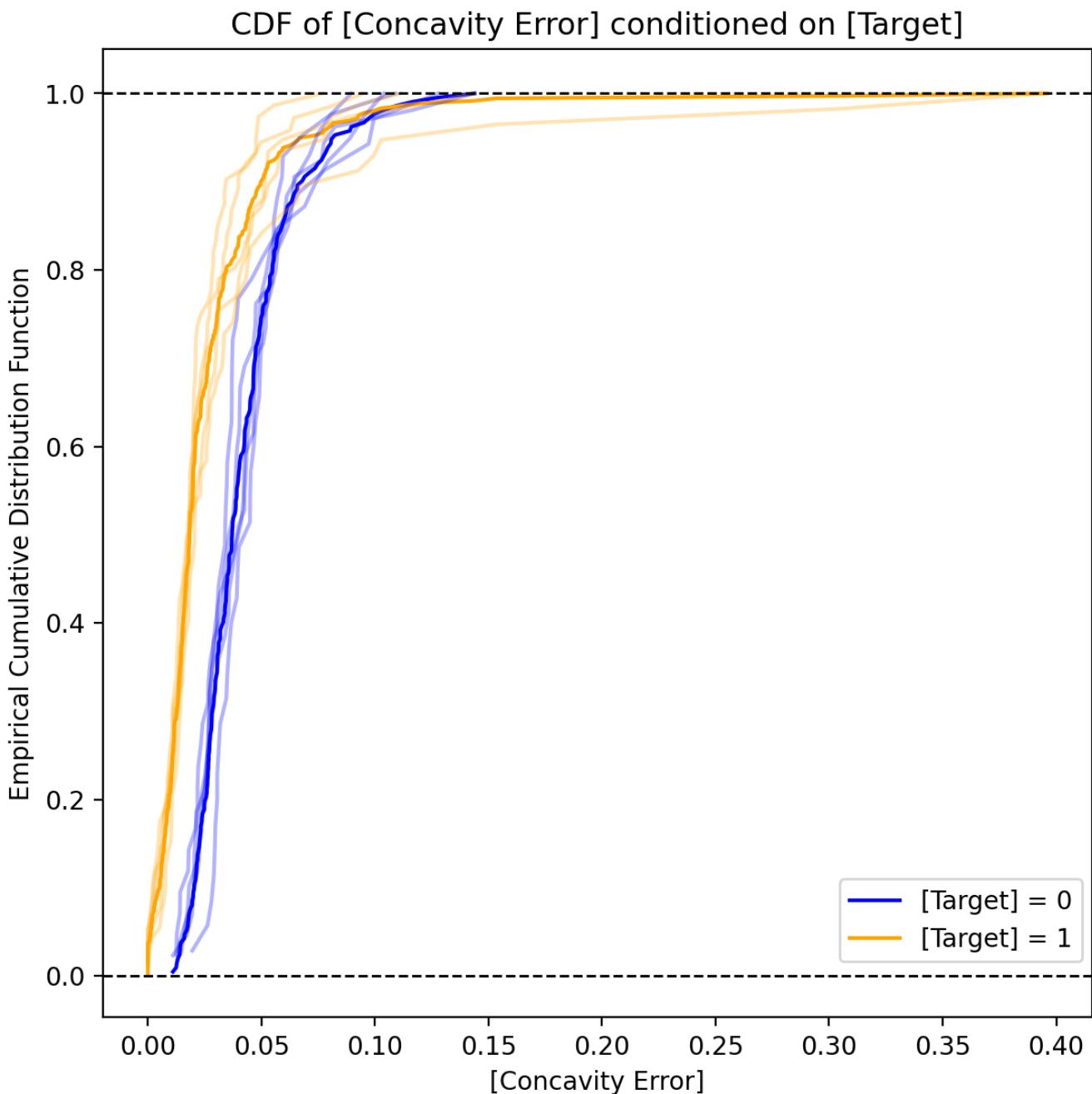
Concavity Error - Kernel Density Plot

Density Plot of [[Concavity Error]] by [[Target]]
Distributions by level are significantly different at the 95% level.



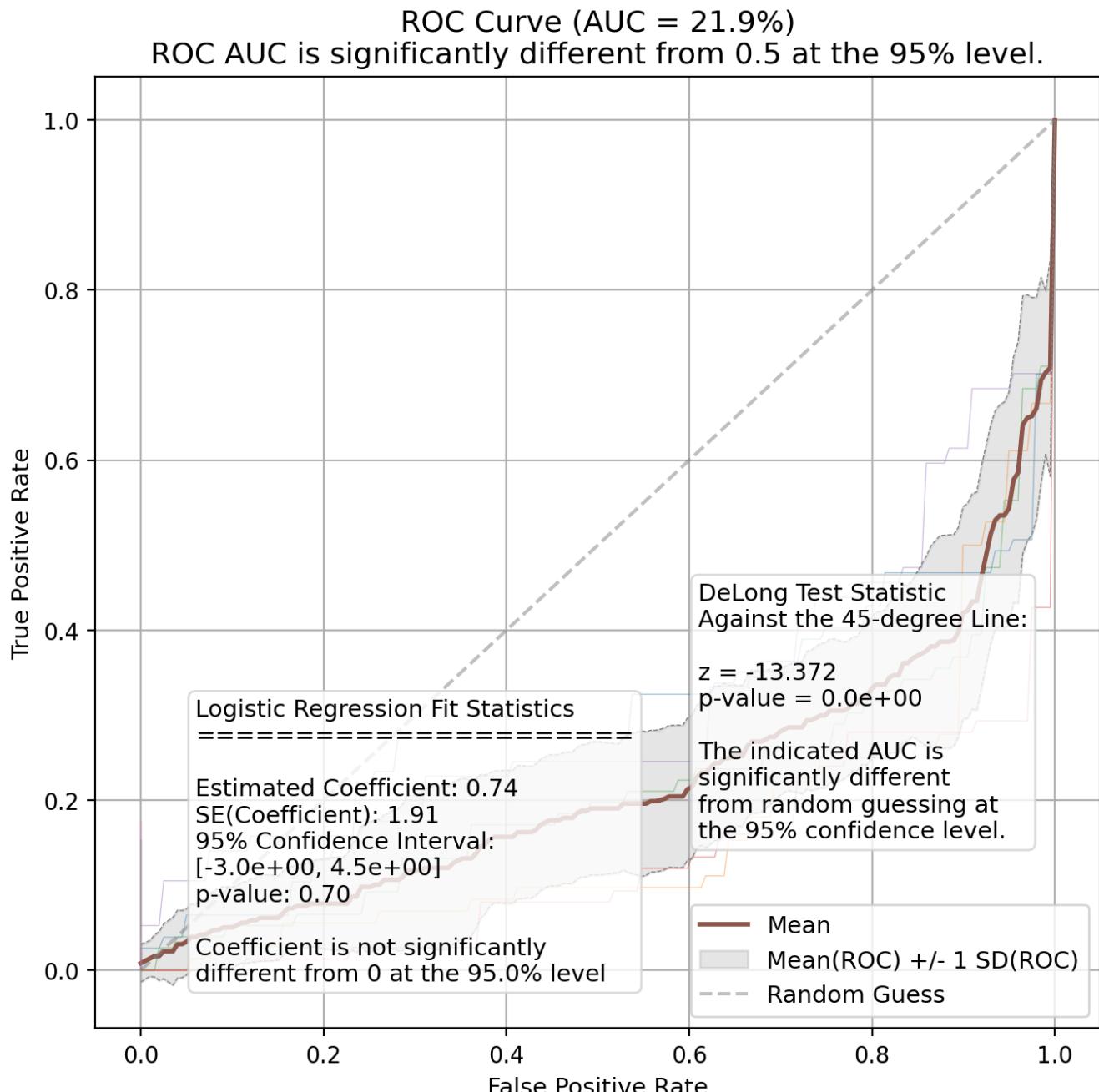
Univariate Report

Concavity Error - Empirical CDF Plot



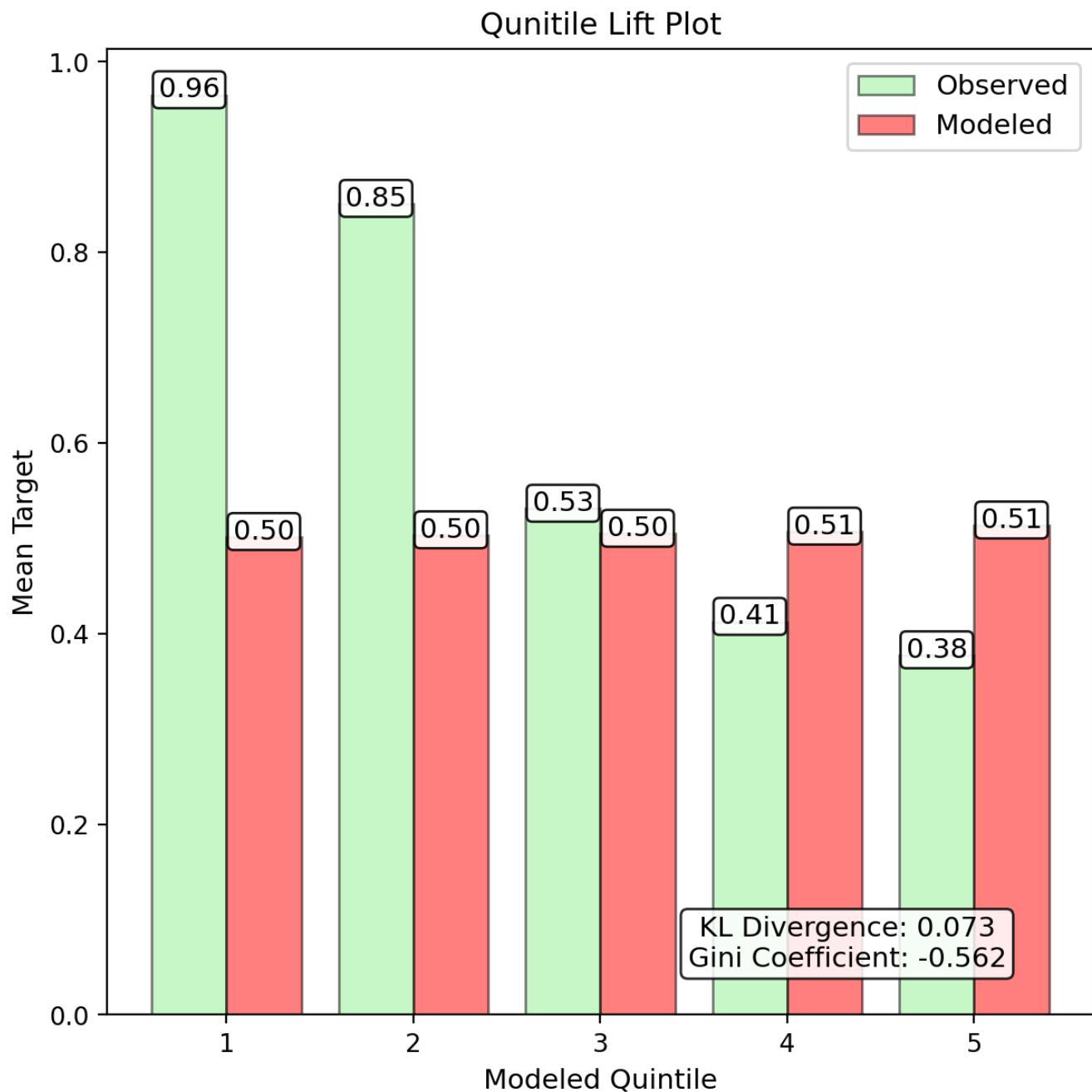
Univariate Report

Concavity Error - ROC Curve



Univariate Report

Concavity Error - Quintile Lift



Univariate Report

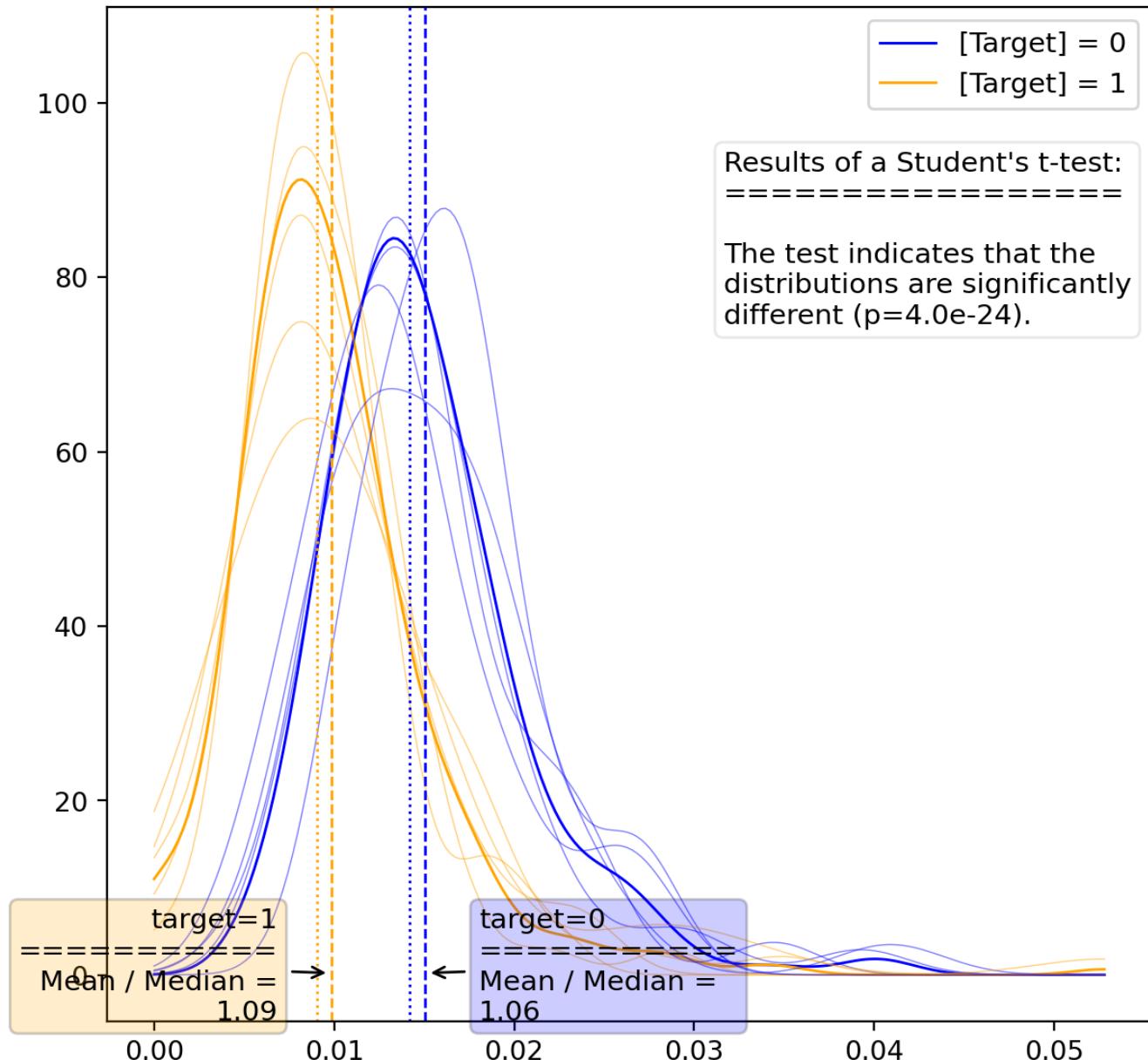
Concave Points Error - Results

	Fold-1	Fold-2	Fold-3	Fold-4	Fold-5	Agg. Mean	Agg. SD
Fitted Coef.	4.81	5.75	9.67	4.80	6.87	6.36	2.03
Fitted p-Value	0.498	0.410	0.178	0.492	0.331	0.314	0.133
Fitted Std. Err.	7.10	6.98	7.18	6.98	7.07	6.31	0.09
Conf. Int. Lower	-9.1e+00	-7.9e+00	-4.4e+00	-8.9e+00	-7.0e+00	-6.0e+00	1.9e+00
Conf. Int. Upper	18.73	19.42	23.74	18.47	20.74	18.73	2.15
Train Accuracy	60.1%	59.6%	61.8%	59.0%	61.7%	60.5%	1.2%
Val Accuracy	61.7%	64.0%	55.8%	66.4%	54.5%	60.5%	5.1%
Train AUC	48.2%	47.9%	48.4%	48.0%	48.3%	48.2%	0.2%
Val AUC	48.1%	49.3%	47.4%	48.7%	47.4%	48.2%	0.8%
Train F1	75.1%	74.7%	76.4%	74.2%	76.3%	75.4%	1.0%
Test F1	76.3%	78.0%	71.6%	79.8%	70.6%	75.4%	4.0%
Train Precision	61.5%	61.2%	63.1%	60.5%	63.0%	61.9%	1.2%
Val Precision	63.2%	64.5%	57.6%	67.6%	56.2%	61.9%	4.8%
Train Recall	96.4%	95.8%	96.8%	96.1%	96.7%	96.4%	0.4%
Val Recall	96.1%	98.6%	94.7%	97.3%	94.7%	96.4%	1.7%
Train MCC	-11.7%	-12.8%	-10.9%	-12.4%	-11.1%	-11.8%	0.8%
Val MCC	-12.0%	-7.0%	-14.9%	-9.3%	-15.2%	-11.8%	3.5%
Train Log-Loss	14.37	14.56	13.76	14.76	13.80	14.25	0.45
Val Log-Loss	13.82	12.99	15.93	12.12	16.38	14.25	1.85

Univariate Report

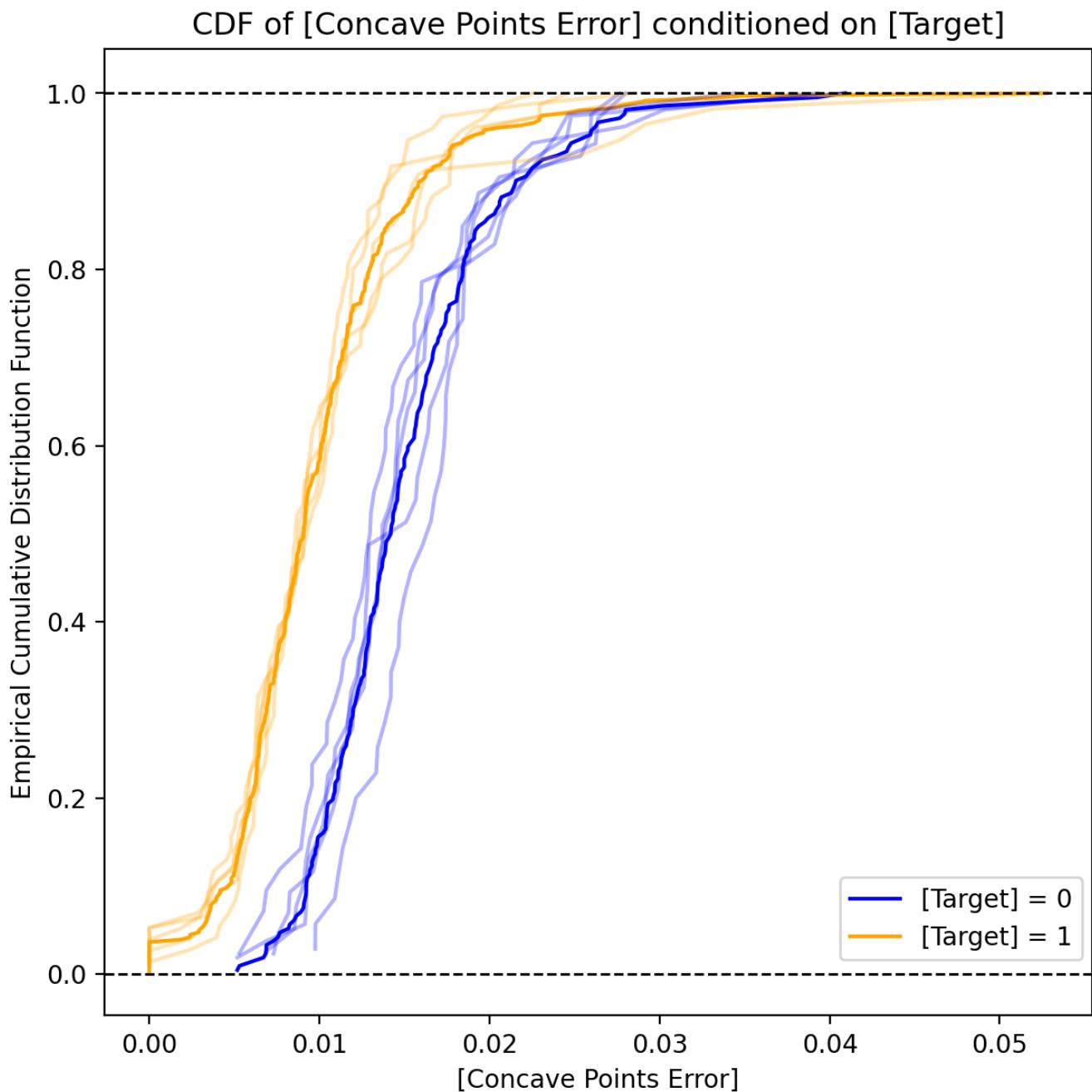
Concave Points Error - Kernel Density Plot

Density Plot of [[Concave Points Error]] by [[Target]]
Distributions by level are significantly different at the 95% level.



Univariate Report

Concave Points Error - Empirical CDF Plot

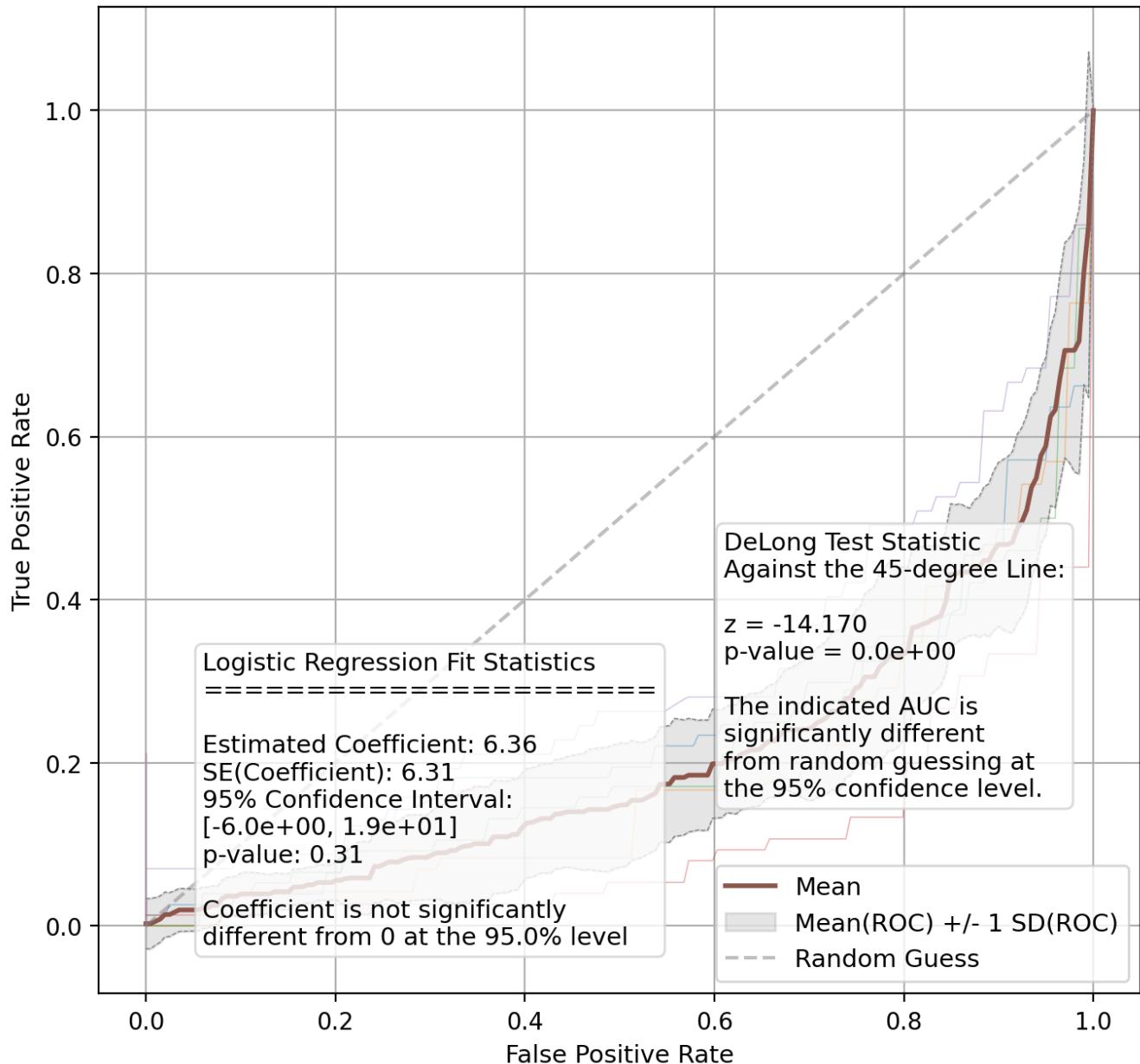


Univariate Report

Concave Points Error - ROC Curve

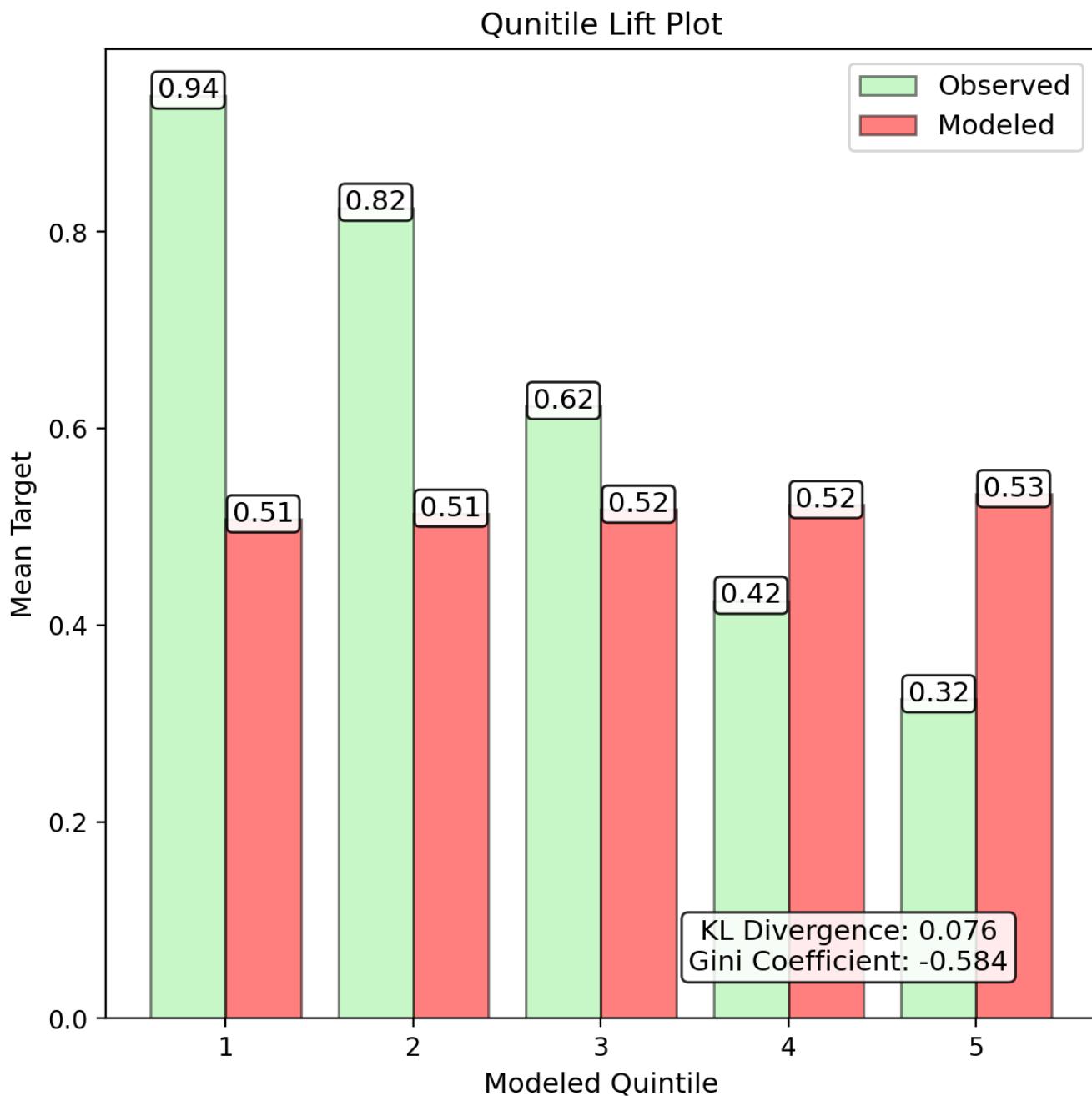
ROC Curve (AUC = 20.8%)

ROC AUC is significantly different from 0.5 at the 95% level.



Univariate Report

Concave Points Error - Quintile Lift



Univariate Report

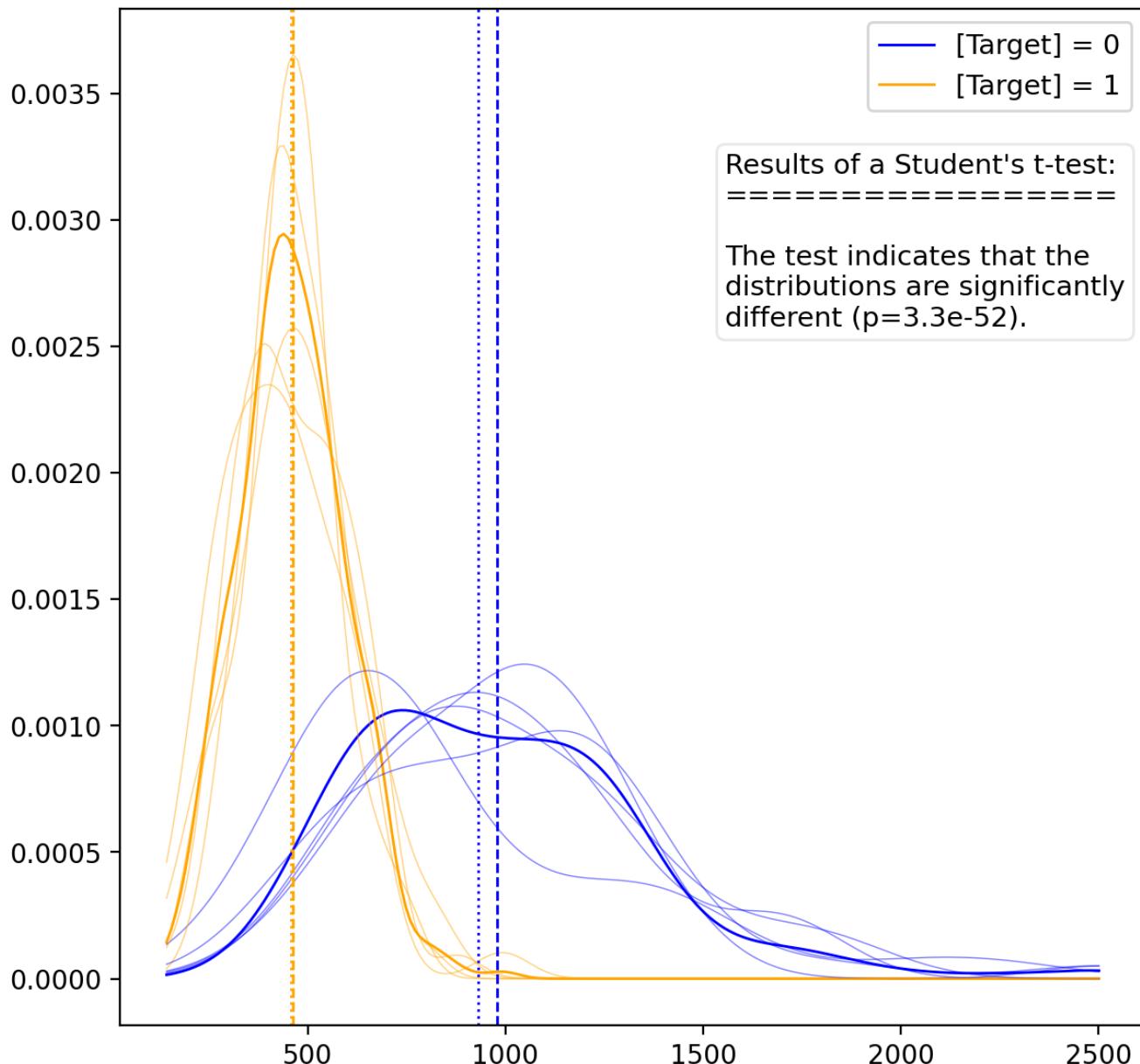
Mean Area - Results

	Fold-1	Fold-2	Fold-3	Fold-4	Fold-5	Agg. Mean	Agg. SD
Fitted Coef.	-2.8e-04	-3.2e-04	-2.1e-04	-3.3e-04	-1.9e-04	-2.7e-04	6.3e-05
Fitted p-Value	3.2e-02	1.1e-02	1.1e-01	1.0e-02	1.3e-01	2.0e-02	5.8e-02
Fitted Std. Err.	1.3e-04	1.3e-04	1.3e-04	1.3e-04	1.3e-04	1.1e-04	1.7e-06
Conf. Int. Lower	-5.3e-04	-5.7e-04	-4.6e-04	-5.8e-04	-4.4e-04	-4.9e-04	6.2e-05
Conf. Int. Upper	-2.4e-05	-7.3e-05	4.7e-05	-7.8e-05	5.8e-05	-4.1e-05	6.5e-05
Train Accuracy	37.6%	37.8%	36.1%	38.6%	36.2%	37.3%	1.1%
Val Accuracy	35.8%	35.1%	41.1%	31.8%	42.4%	37.3%	4.4%
Train AUC	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	0.0%
Val AUC	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	0.0%
Train F1	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Test F1	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Train Precision	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Val Precision	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Train Recall	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Val Recall	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Train MCC	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Val MCC	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Train Log-Loss	22.48	22.43	23.02	22.14	23.01	22.61	0.38
Val Log-Loss	23.13	23.38	21.24	24.58	20.75	22.61	1.59

Univariate Report

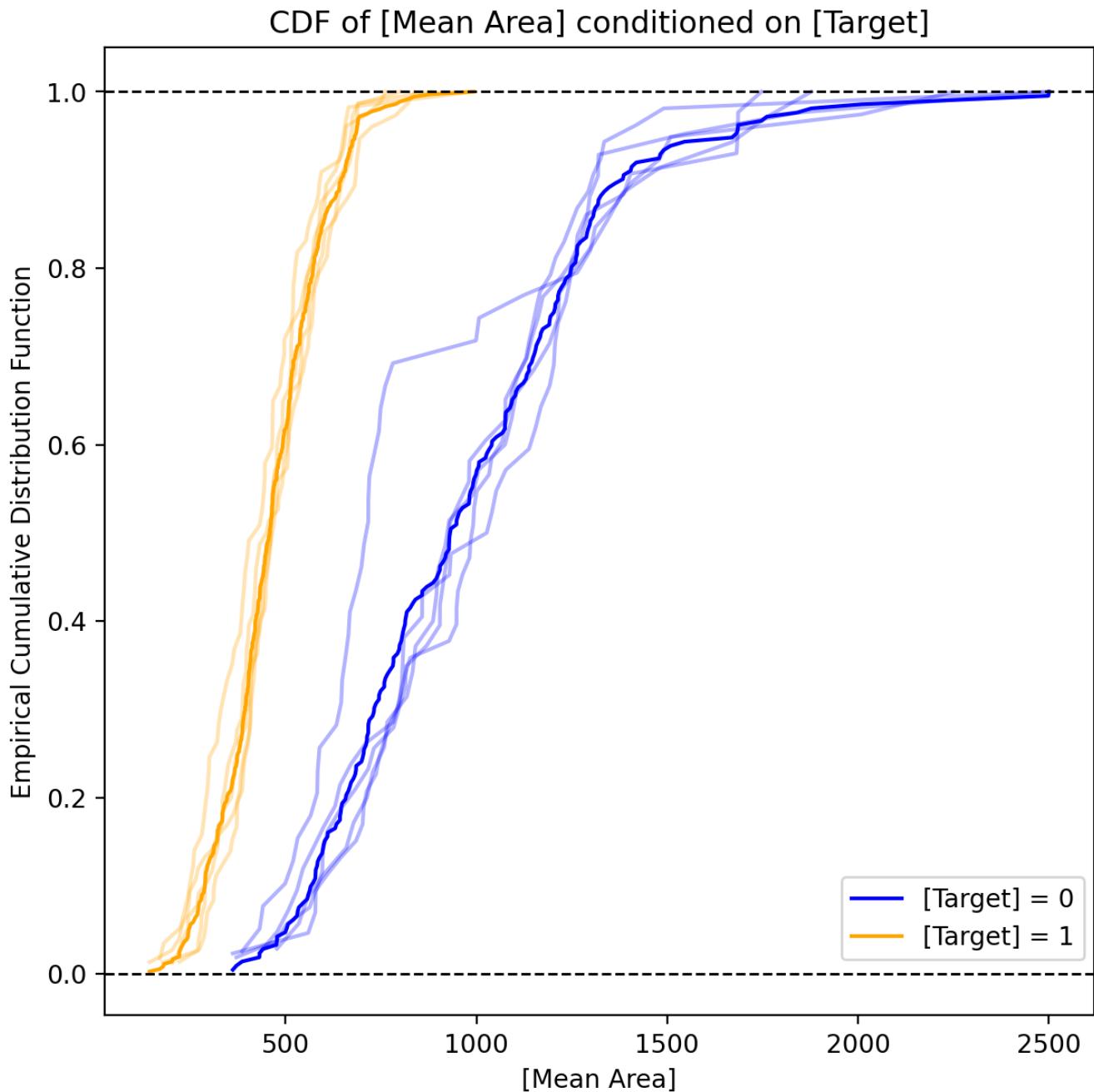
Mean Area - Kernel Density Plot

Density Plot of [[Mean Area]] by [[Target]]
Distributions by level are significantly different at the 95% level.



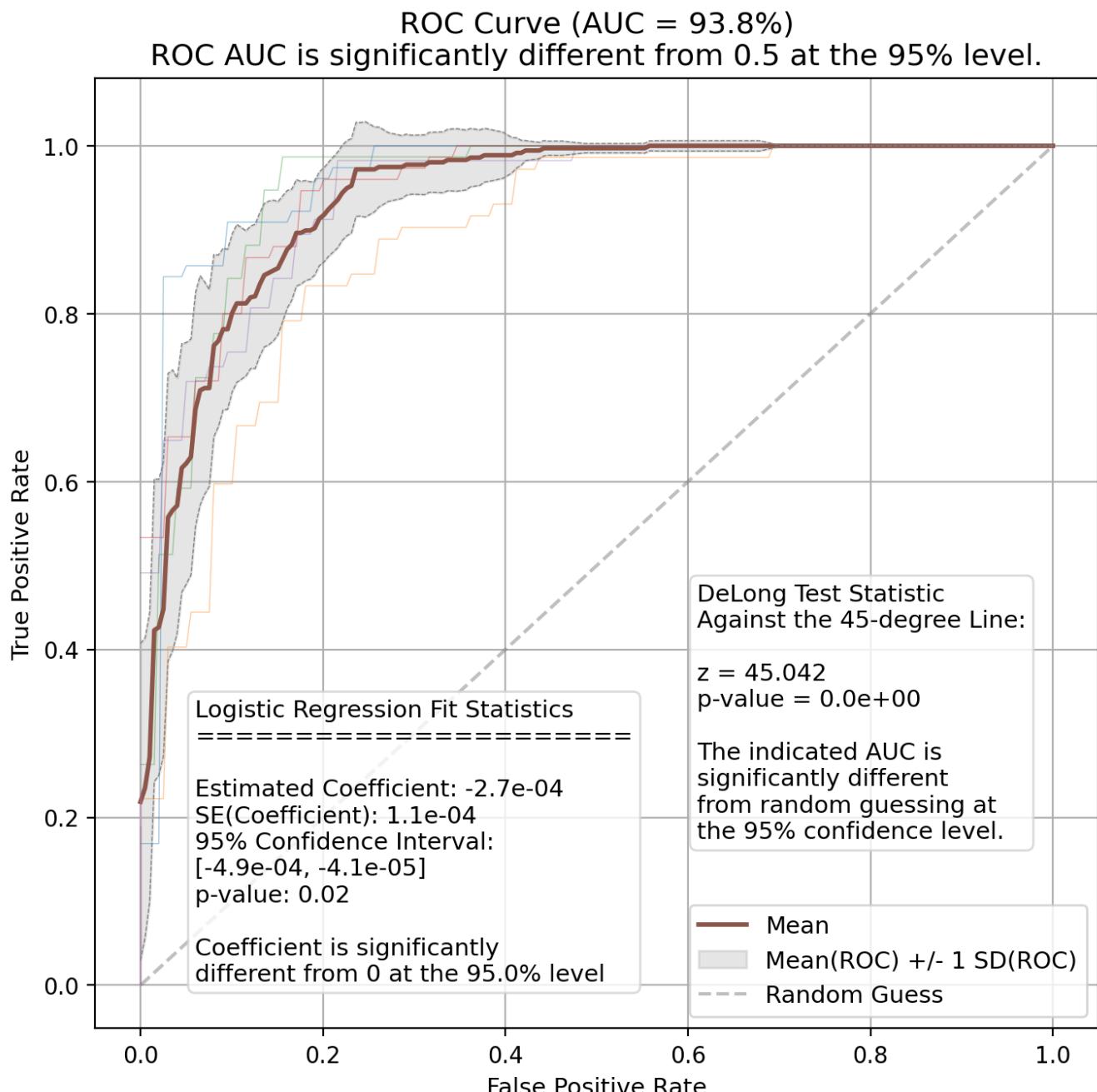
Univariate Report

Mean Area - Empirical CDF Plot



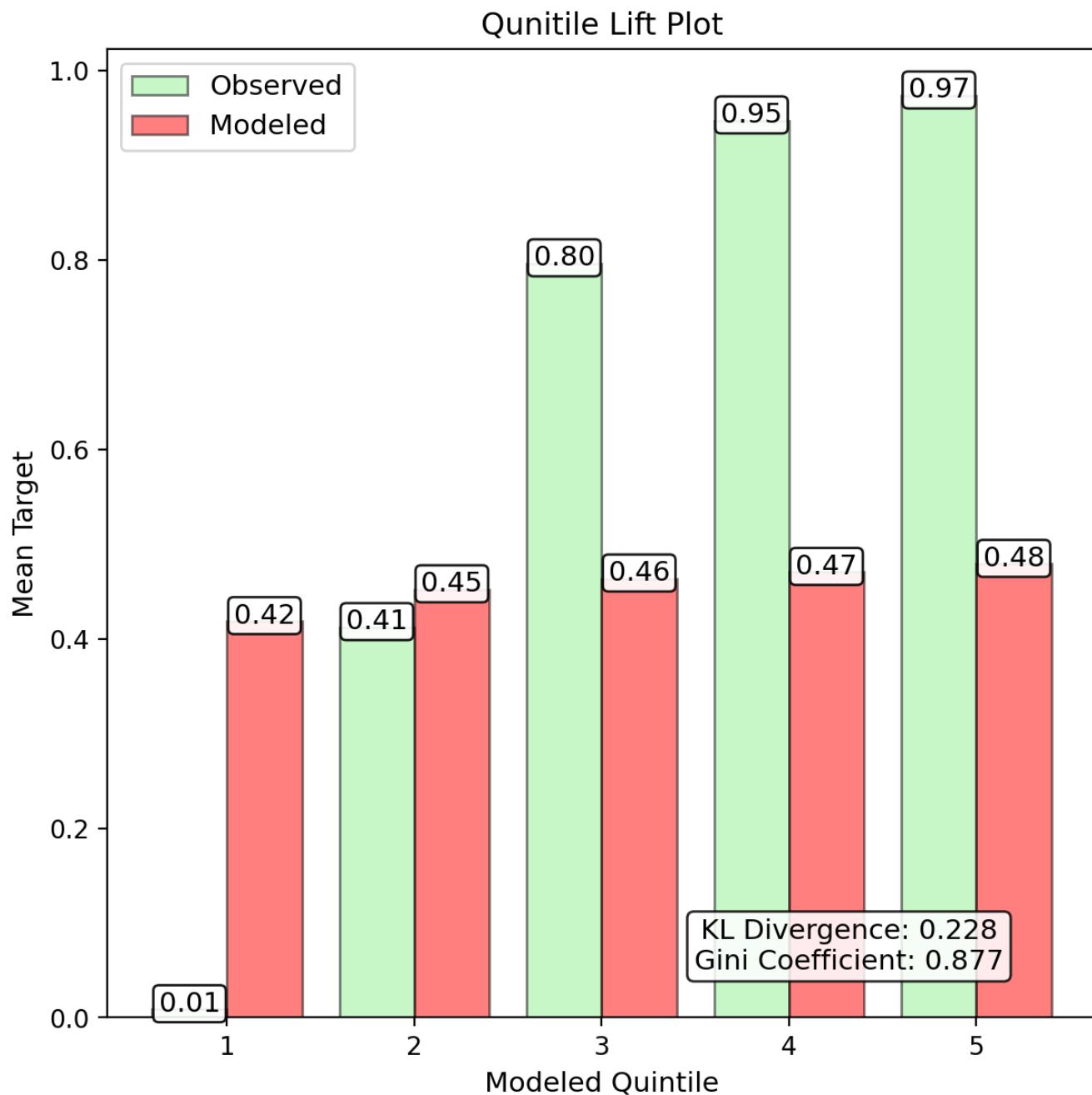
Univariate Report

Mean Area - ROC Curve



Univariate Report

Mean Area - Quintile Lift



Univariate Report

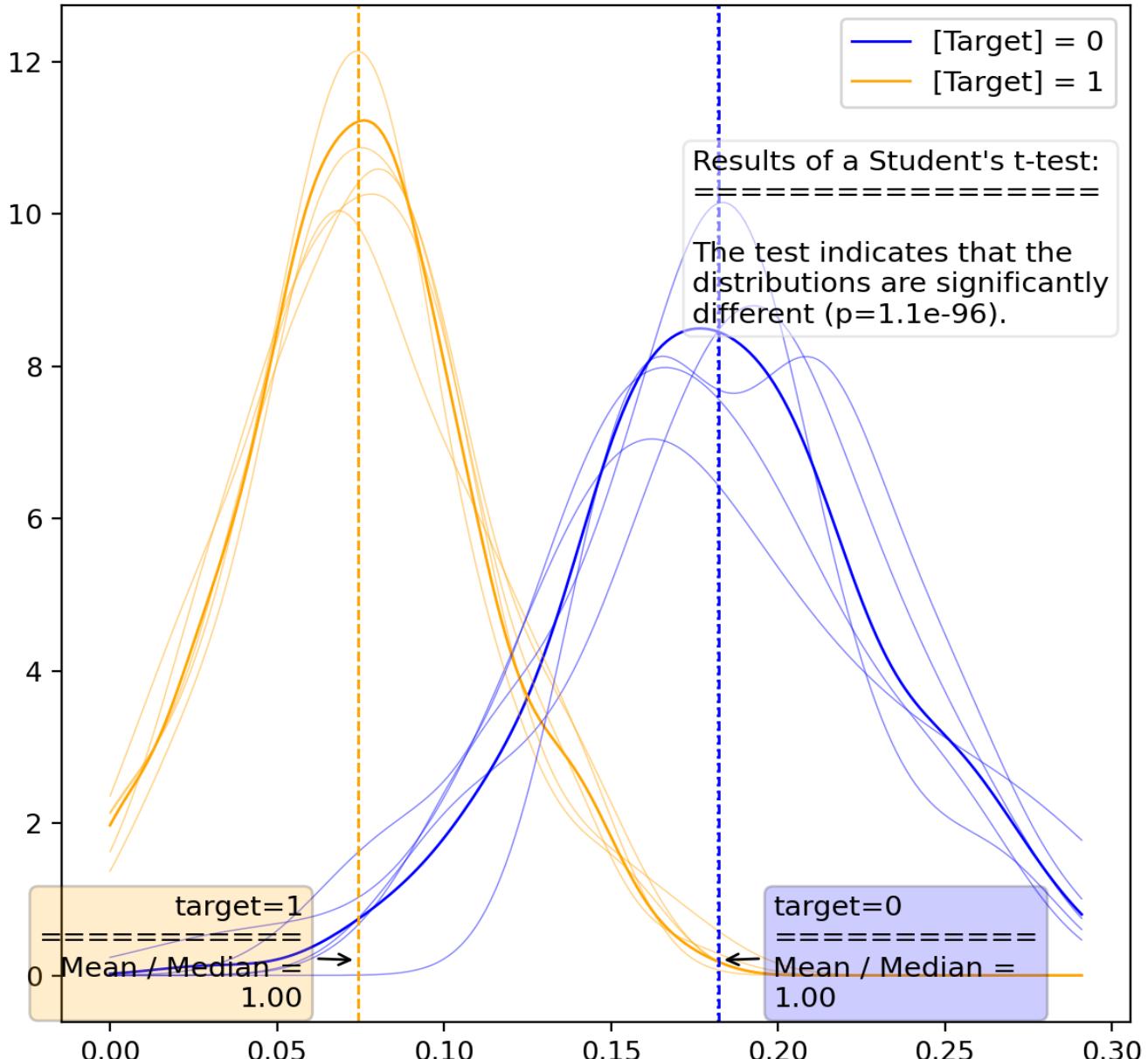
Worst Concave Points - Results

	Fold-1	Fold-2	Fold-3	Fold-4	Fold-5	Agg. Mean	Agg. SD
Fitted Coef.	-2.4e+00	-2.7e+00	-2.1e+00	-2.7e+00	-2.2e+00	-2.4e+00	2.7e-01
Fitted p-Value	8.7e-04	2.4e-04	4.4e-03	2.3e-04	2.0e-03	2.0e-04	1.8e-03
Fitted Std. Err.	0.734	0.729	0.737	0.729	0.714	0.651	0.009
Conf. Int. Lower	-3.9e+00	-4.1e+00	-3.5e+00	-4.1e+00	-3.6e+00	-3.7e+00	2.7e-01
Conf. Int. Upper	-1.0e+00	-1.2e+00	-6.5e-01	-1.3e+00	-8.1e-01	-1.1e+00	2.7e-01
Train Accuracy	37.6%	37.8%	36.1%	38.6%	36.2%	37.3%	1.1%
Val Accuracy	35.8%	35.1%	41.1%	31.8%	42.4%	37.3%	4.4%
Train AUC	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	0.0%
Val AUC	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	0.0%
Train F1	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Test F1	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Train Precision	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Val Precision	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Train Recall	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Val Recall	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Train MCC	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Val MCC	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Train Log-Loss	22.48	22.43	23.02	22.14	23.01	22.61	0.38
Val Log-Loss	23.13	23.38	21.24	24.58	20.75	22.61	1.59

Univariate Report

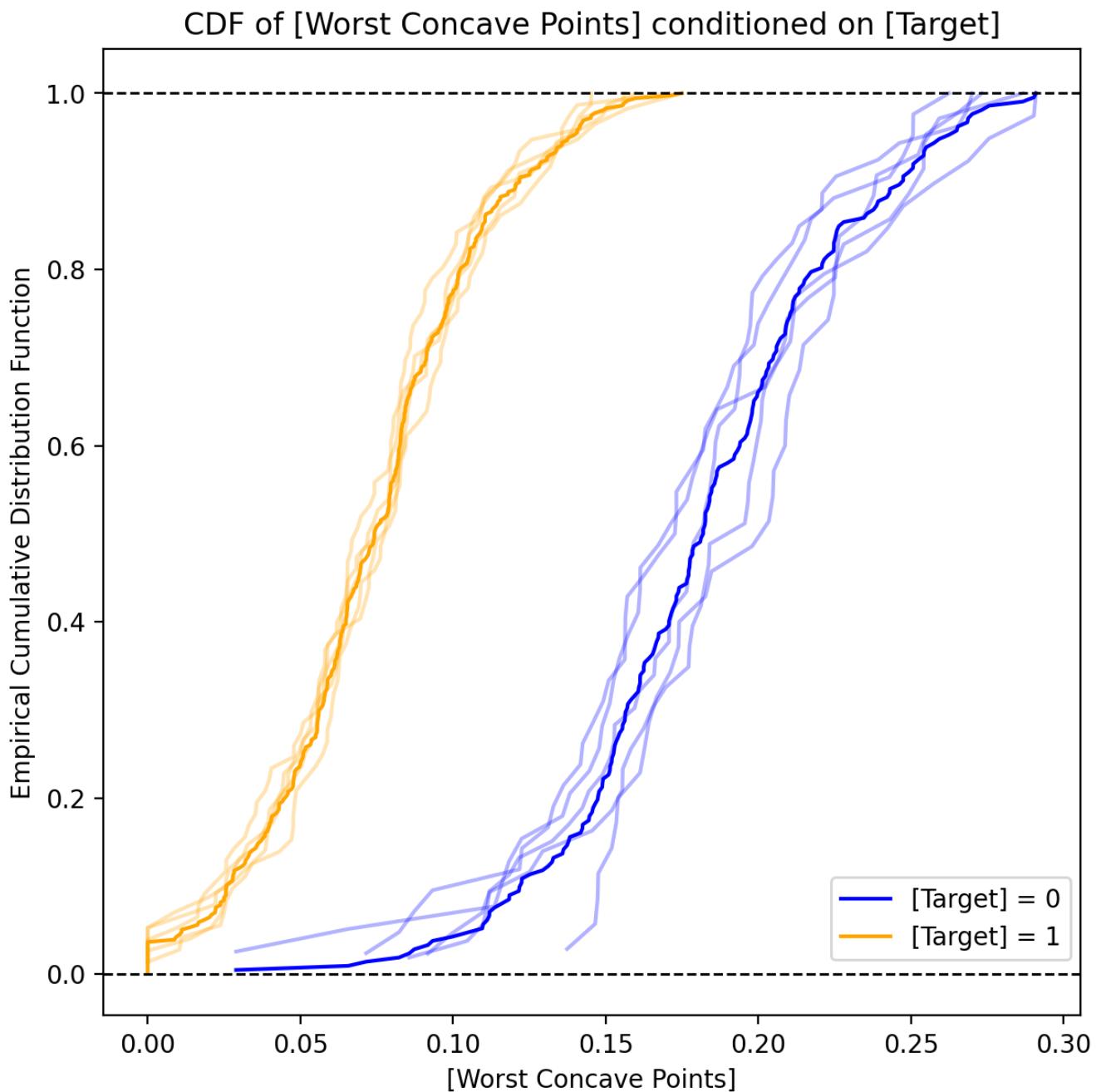
Worst Concave Points - Kernel Density Plot

Density Plot of [[Worst Concave Points]] by [[Target]]
Distributions by level are significantly different at the 95% level.



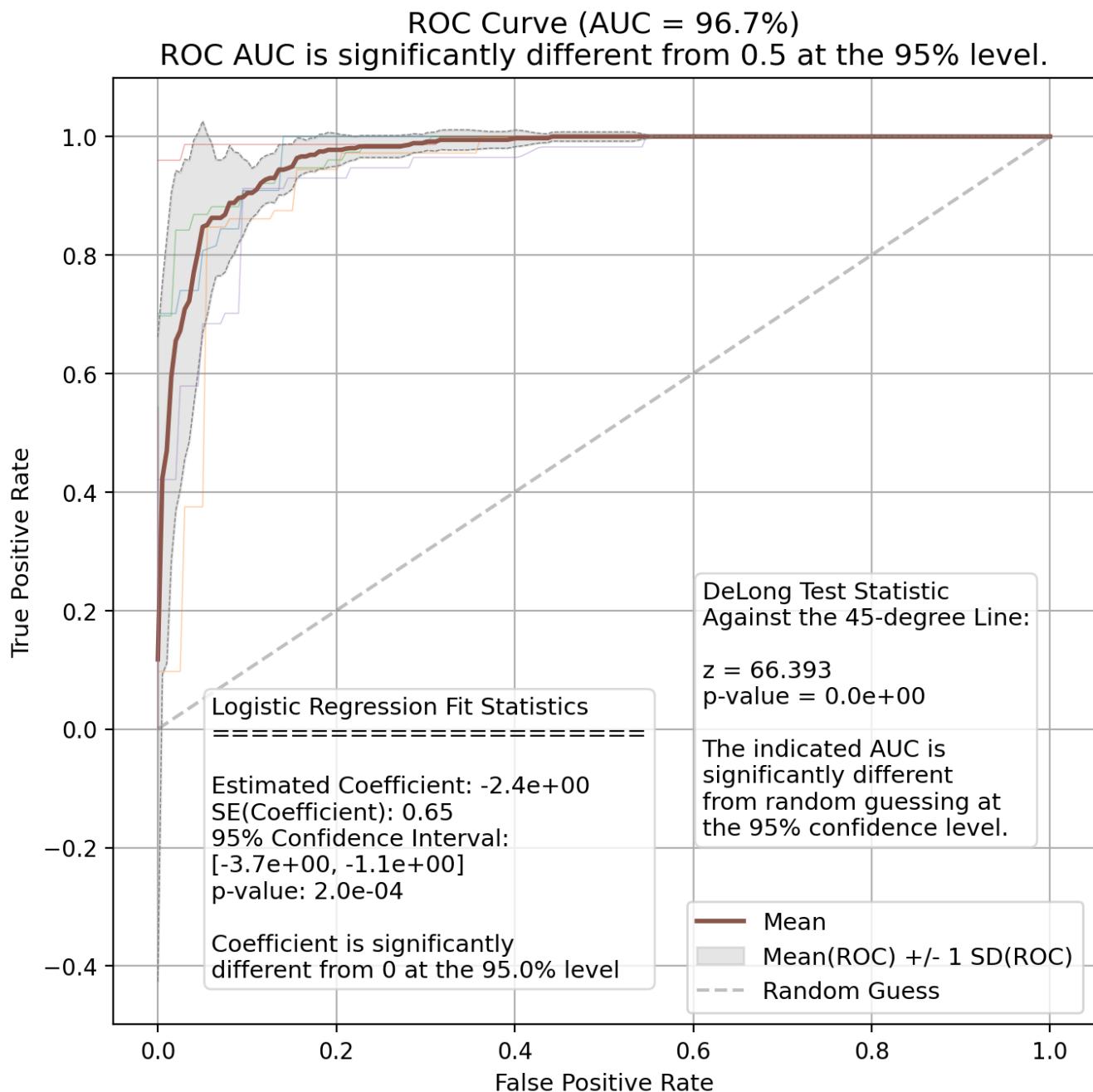
Univariate Report

Worst Concave Points - Empirical CDF Plot



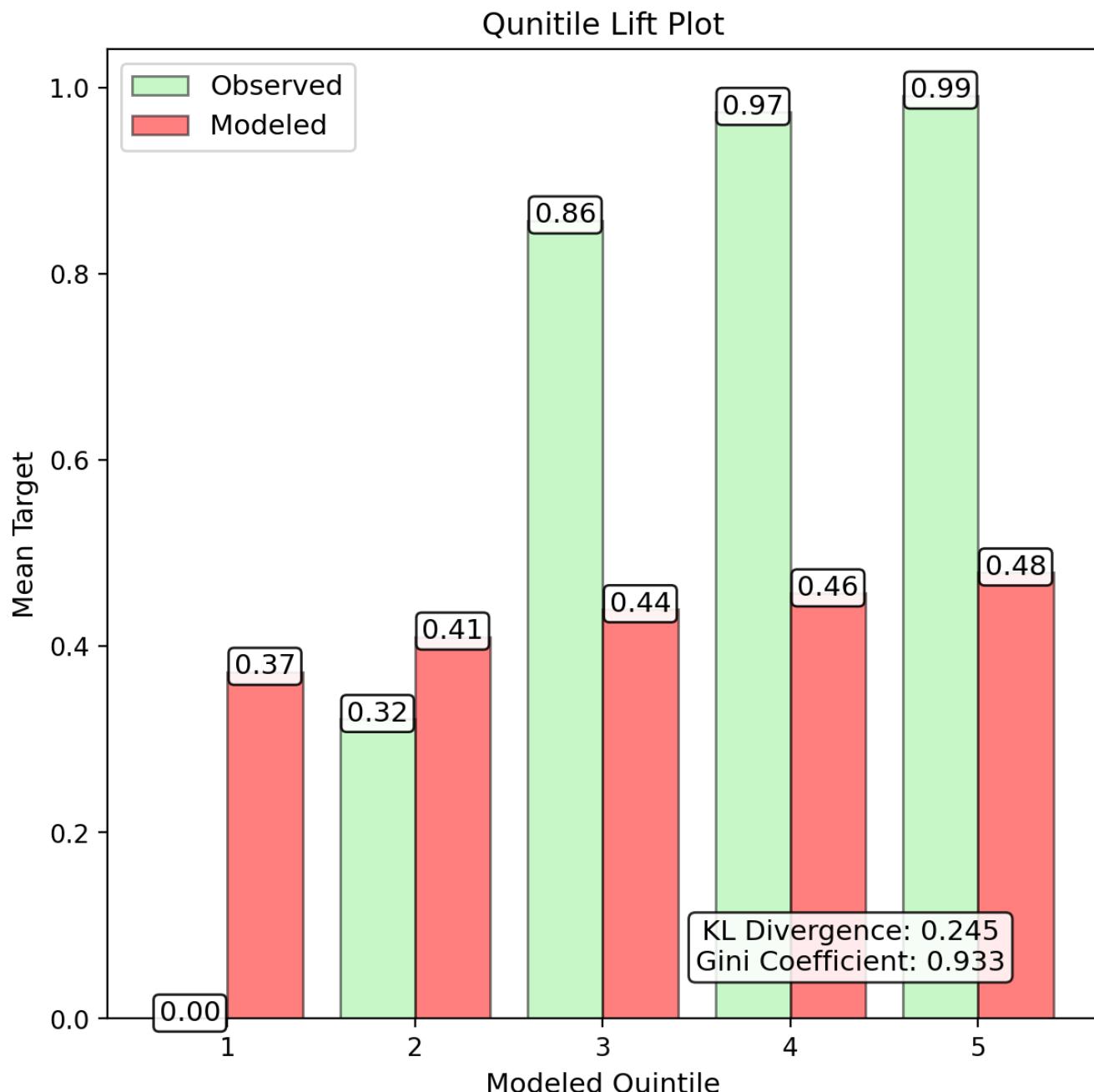
Univariate Report

Worst Concave Points - ROC Curve



Univariate Report

Worst Concave Points - Quintile Lift



Univariate Report

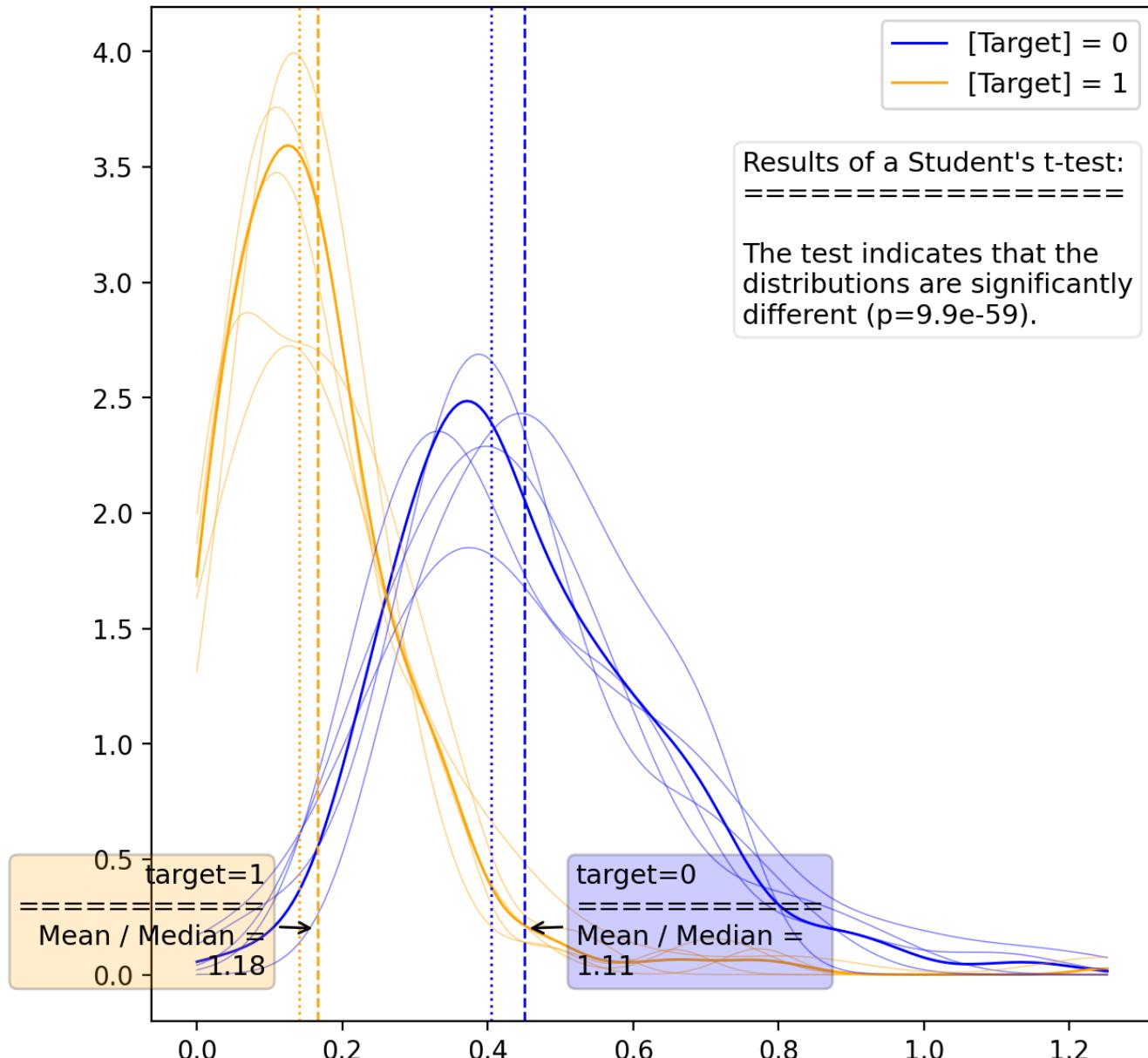
Worst Concavity - Results

	Fold-1	Fold-2	Fold-3	Fold-4	Fold-5	Agg. Mean	Agg. SD
Fitted Coef.	-1.1e+00	-1.1e+00	-9.8e-01	-1.1e+00	-1.1e+00	-1.1e+00	6.6e-02
Fitted p-Value	9.1e-05	1.1e-04	7.3e-04	5.8e-05	1.1e-04	2.0e-05	2.8e-04
Fitted Std. Err.	0.288	0.289	0.291	0.285	0.289	0.258	0.002
Conf. Int. Lower	-1.7e+00	-1.7e+00	-1.6e+00	-1.7e+00	-1.7e+00	-1.6e+00	6.2e-02
Conf. Int. Upper	-5.6e-01	-5.5e-01	-4.1e-01	-5.9e-01	-5.5e-01	-5.9e-01	6.9e-02
Train Accuracy	37.6%	37.8%	36.1%	38.6%	36.2%	37.3%	1.1%
Val Accuracy	35.8%	35.1%	41.1%	31.8%	42.4%	37.3%	4.4%
Train AUC	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	0.0%
Val AUC	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	0.0%
Train F1	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Test F1	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Train Precision	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Val Precision	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Train Recall	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Val Recall	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Train MCC	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Val MCC	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Train Log-Loss	22.48	22.43	23.02	22.14	23.01	22.61	0.38
Val Log-Loss	23.13	23.38	21.24	24.58	20.75	22.61	1.59

Univariate Report

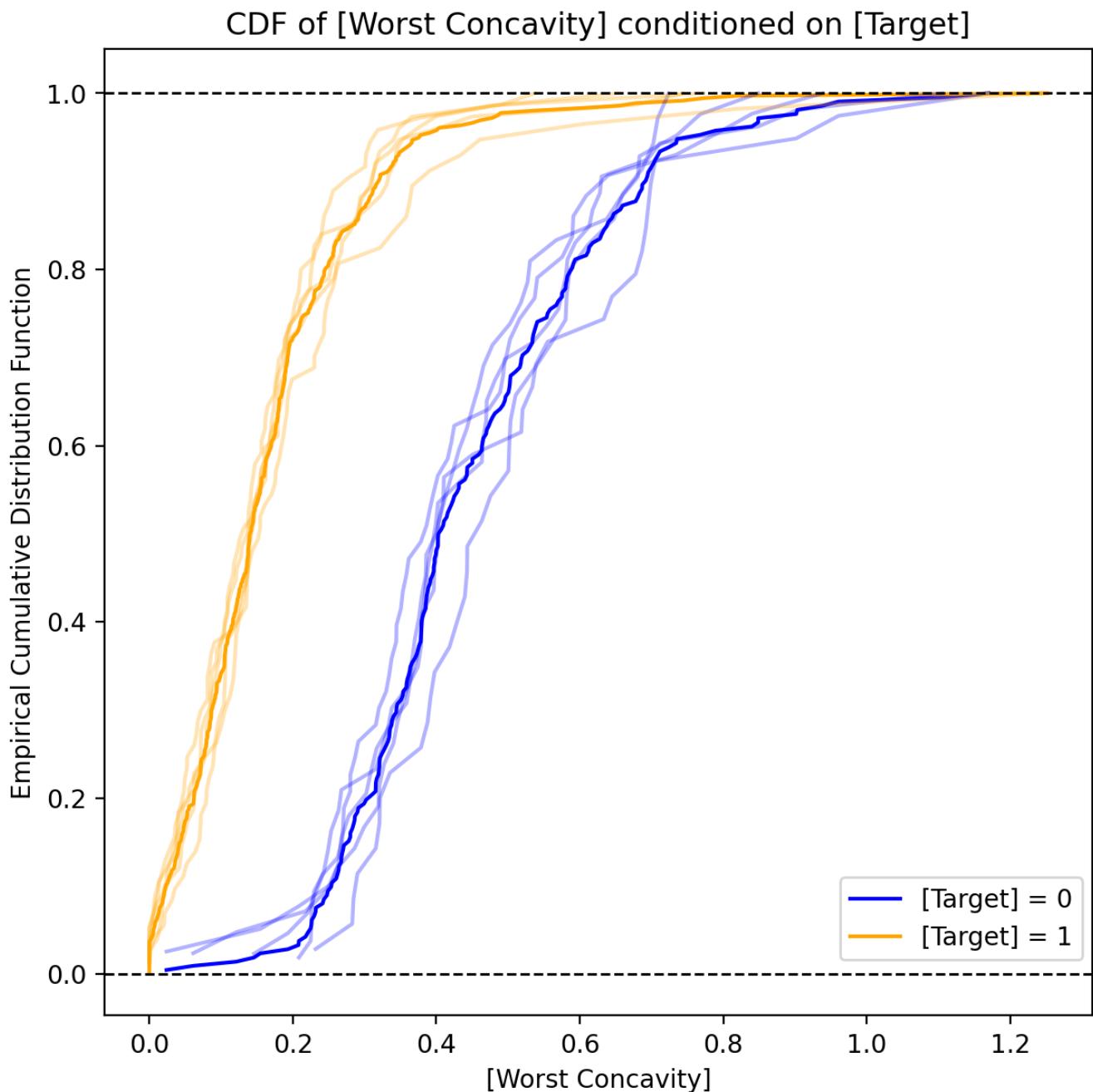
Worst Concavity - Kernel Density Plot

Density Plot of [[Worst Concavity]] by [[Target]]
Distributions by level are significantly different at the 95% level.



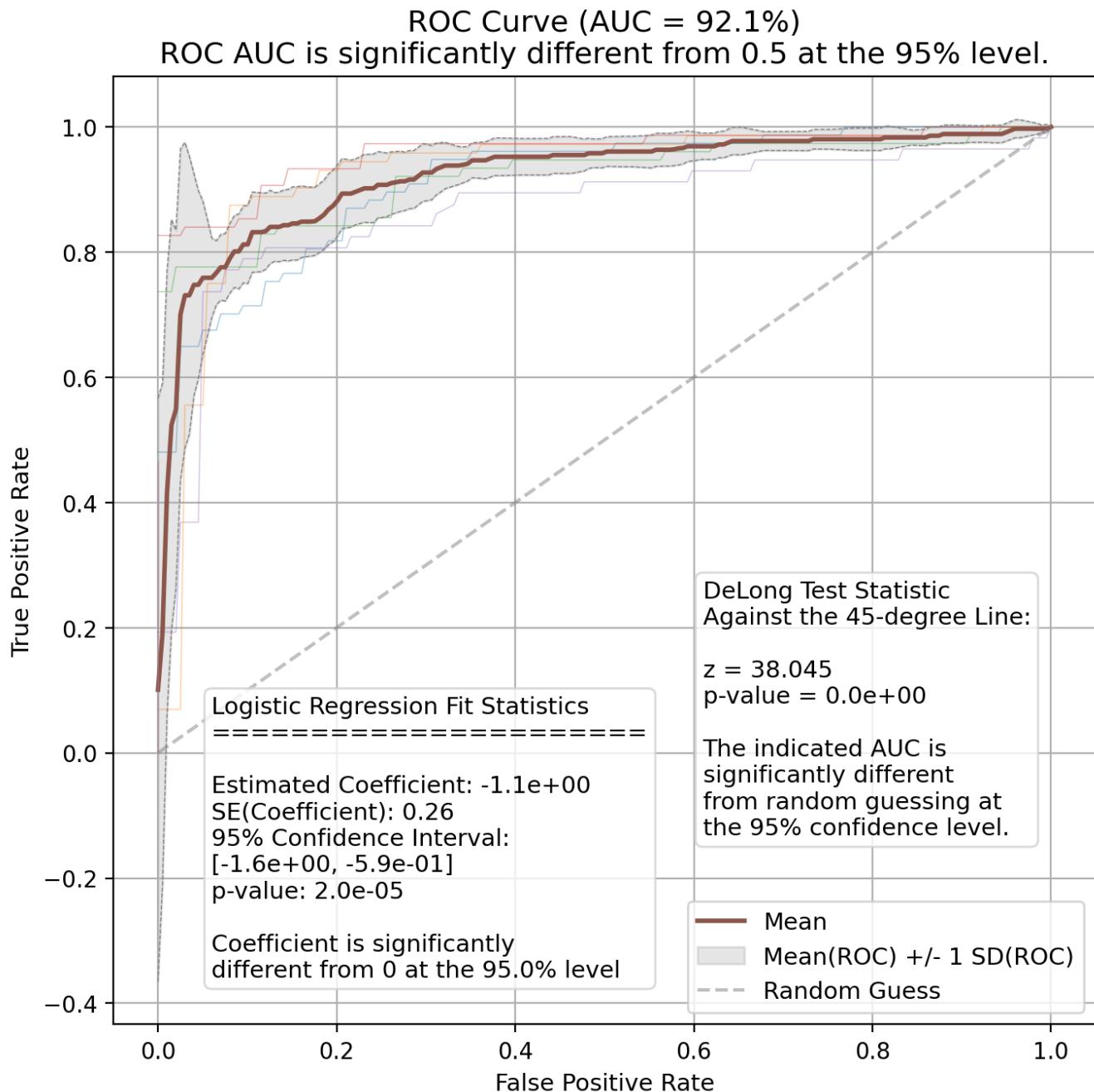
Univariate Report

Worst Concavity - Empirical CDF Plot



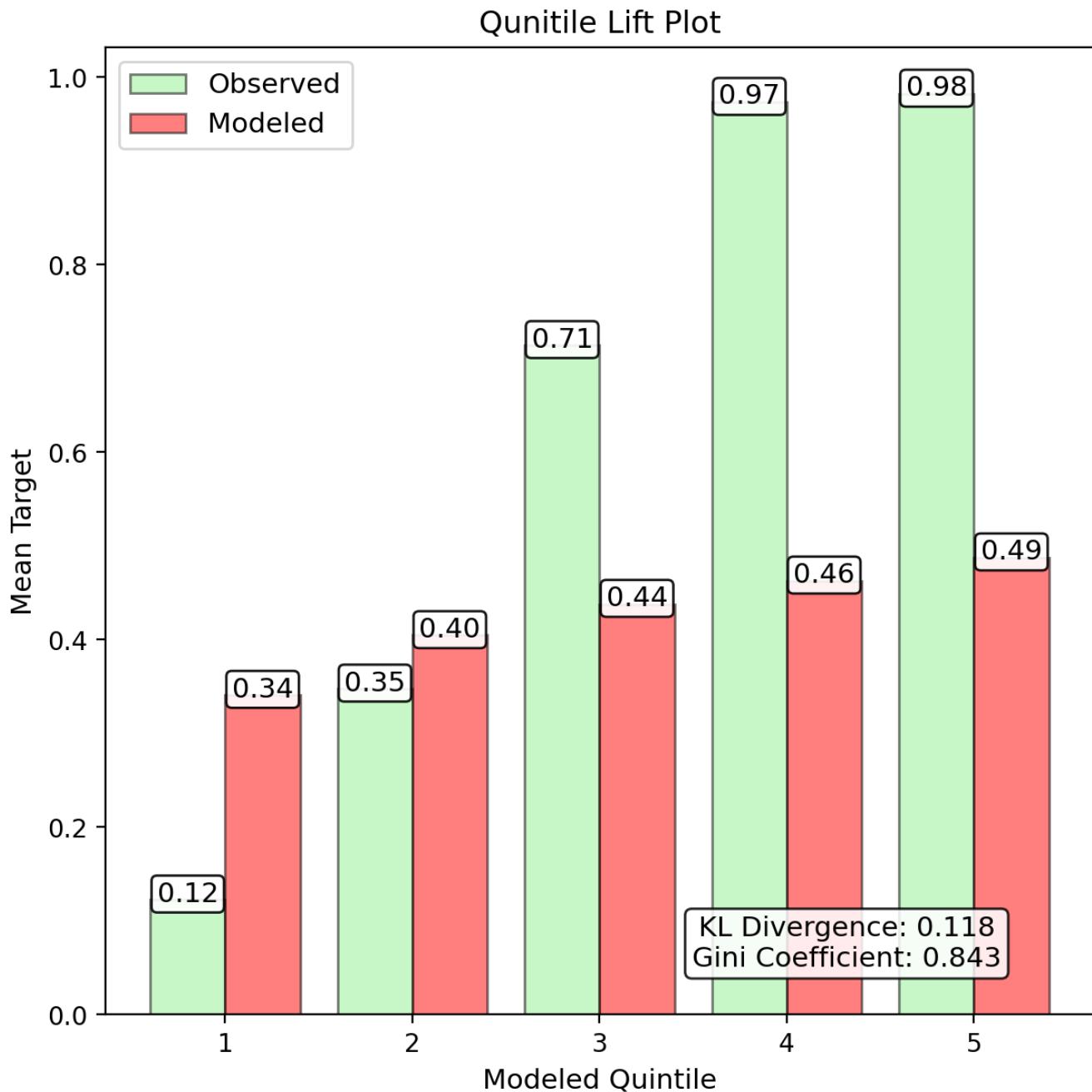
Univariate Report

Worst Concavity - ROC Curve



Univariate Report

Worst Concavity - Quintile Lift



Univariate Report

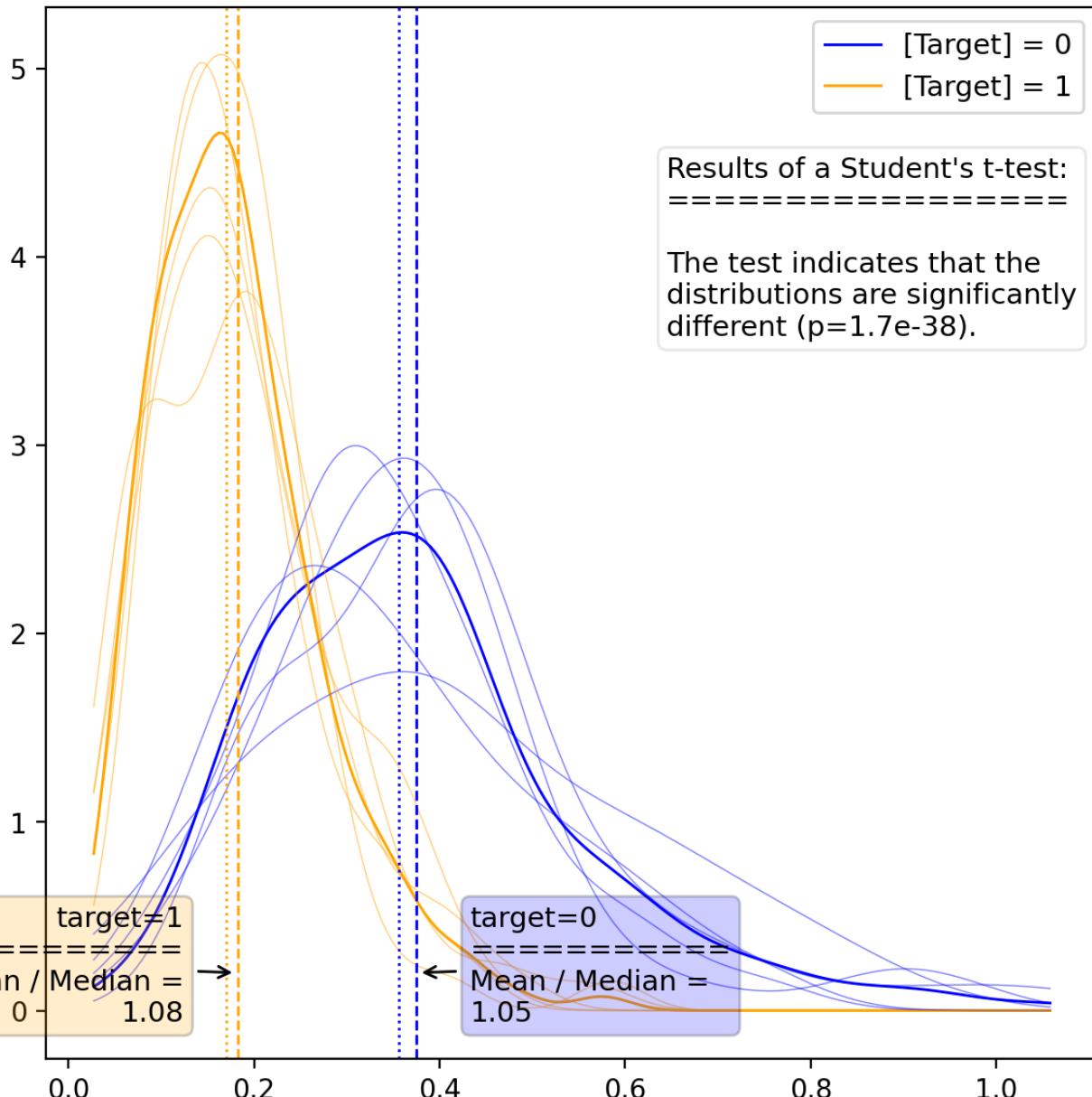
Worst Compactness - Results

	Fold-1	Fold-2	Fold-3	Fold-4	Fold-5	Agg. Mean	Agg. SD
Fitted Coef.	-5.8e-01	-5.6e-01	-4.3e-01	-6.9e-01	-4.9e-01	-5.5e-01	9.8e-02
Fitted p-Value	6.6e-02	7.9e-02	1.8e-01	2.8e-02	1.1e-01	5.1e-02	5.8e-02
Fitted Std. Err.	0.317	0.319	0.325	0.314	0.309	0.283	0.006
Conf. Int. Lower	-1.2e+00	-1.2e+00	-1.1e+00	-1.3e+00	-1.1e+00	-1.1e+00	9.4e-02
Conf. Int. Upper	3.9e-02	6.5e-02	2.0e-01	-7.6e-02	1.2e-01	2.3e-03	1.0e-01
Train Accuracy	37.6%	37.8%	36.1%	38.6%	36.2%	37.3%	1.1%
Val Accuracy	35.8%	35.1%	41.1%	31.8%	42.4%	37.3%	4.4%
Train AUC	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	0.0%
Val AUC	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	0.0%
Train F1	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Test F1	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Train Precision	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Val Precision	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Train Recall	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Val Recall	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Train MCC	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Val MCC	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Train Log-Loss	22.48	22.43	23.02	22.14	23.01	22.61	0.38
Val Log-Loss	23.13	23.38	21.24	24.58	20.75	22.61	1.59

Univariate Report

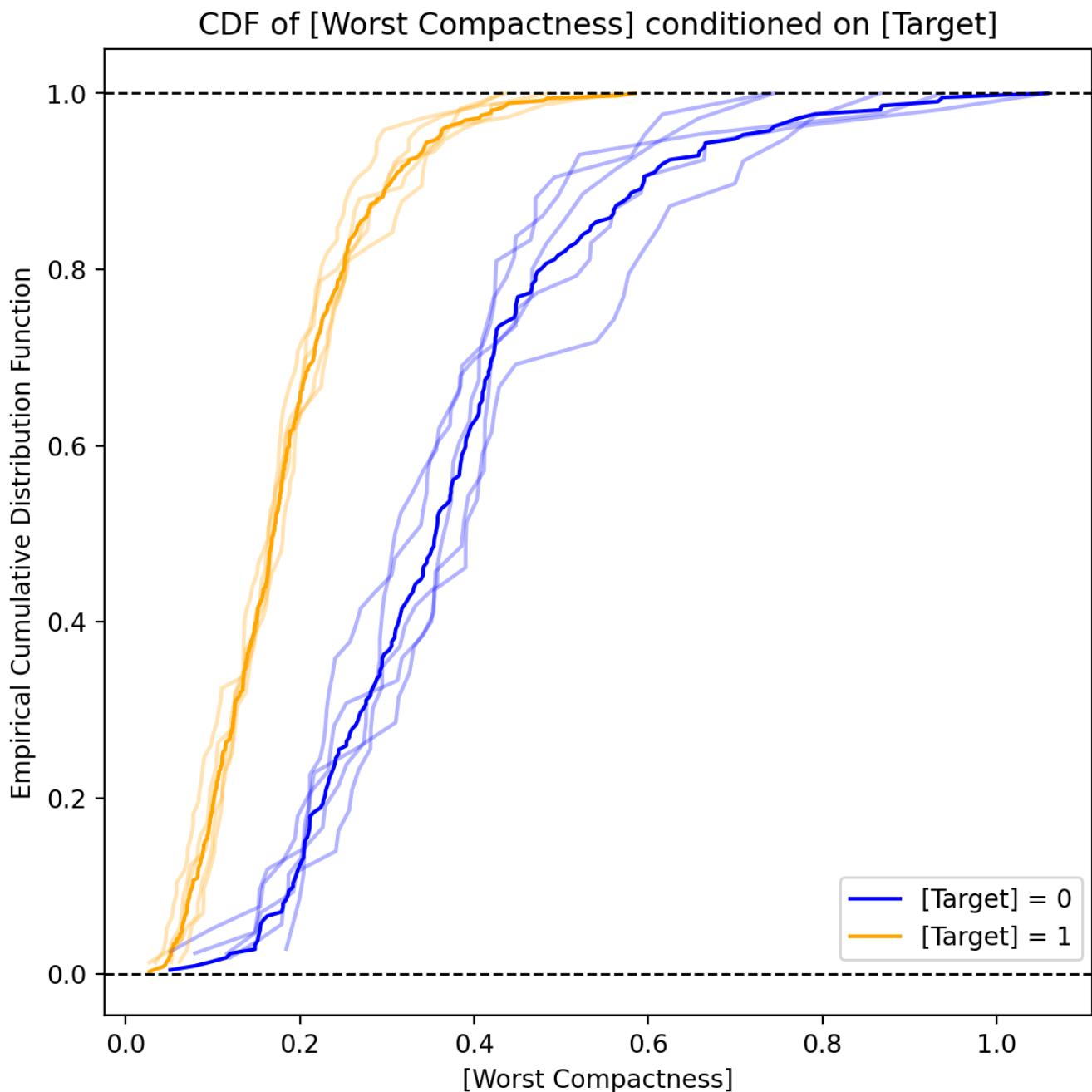
Worst Compactness - Kernel Density Plot

Density Plot of [[Worst Compactness]] by [[Target]]
Distributions by level are significantly different at the 95% level.



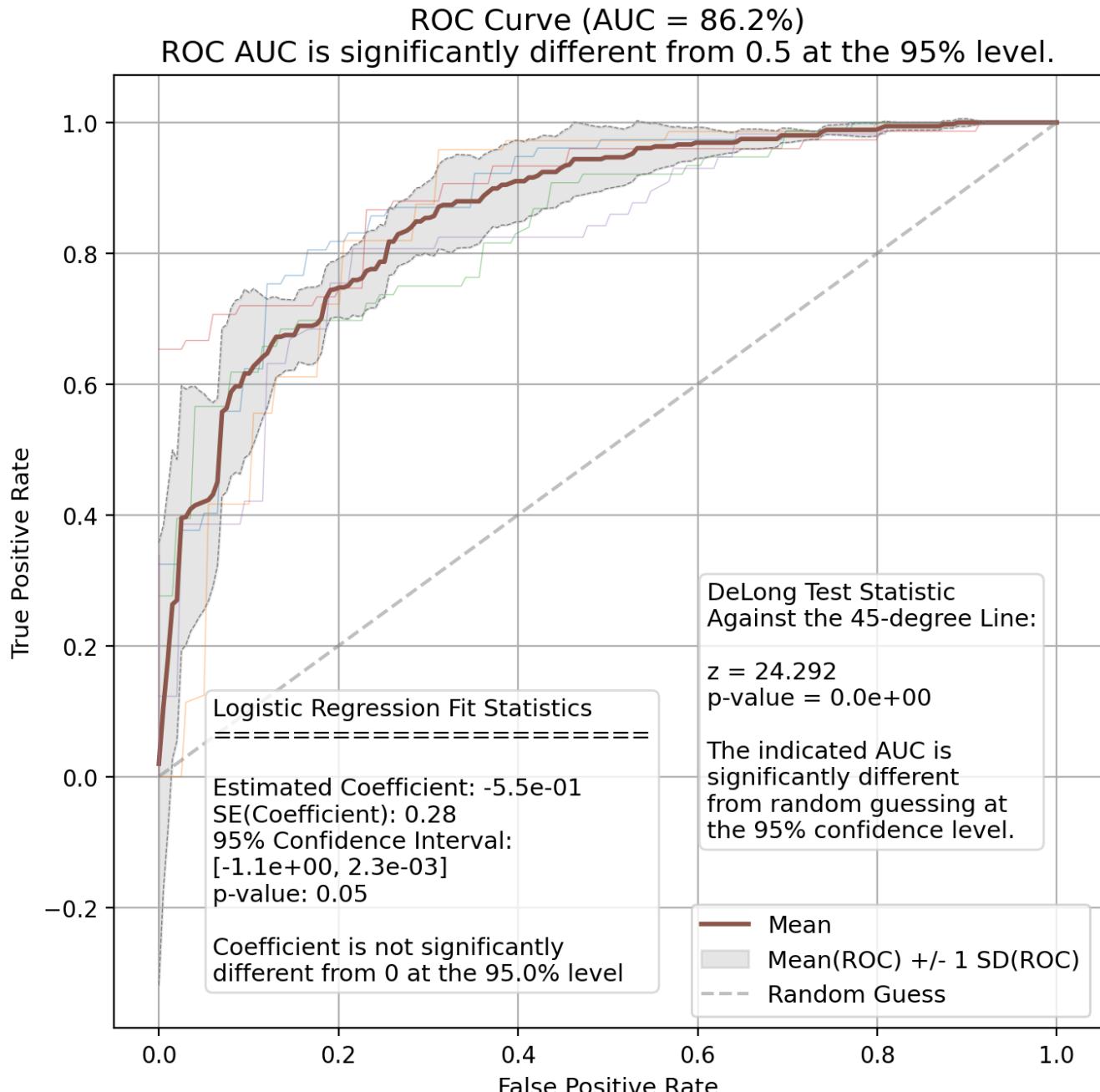
Univariate Report

Worst Compactness - Empirical CDF Plot



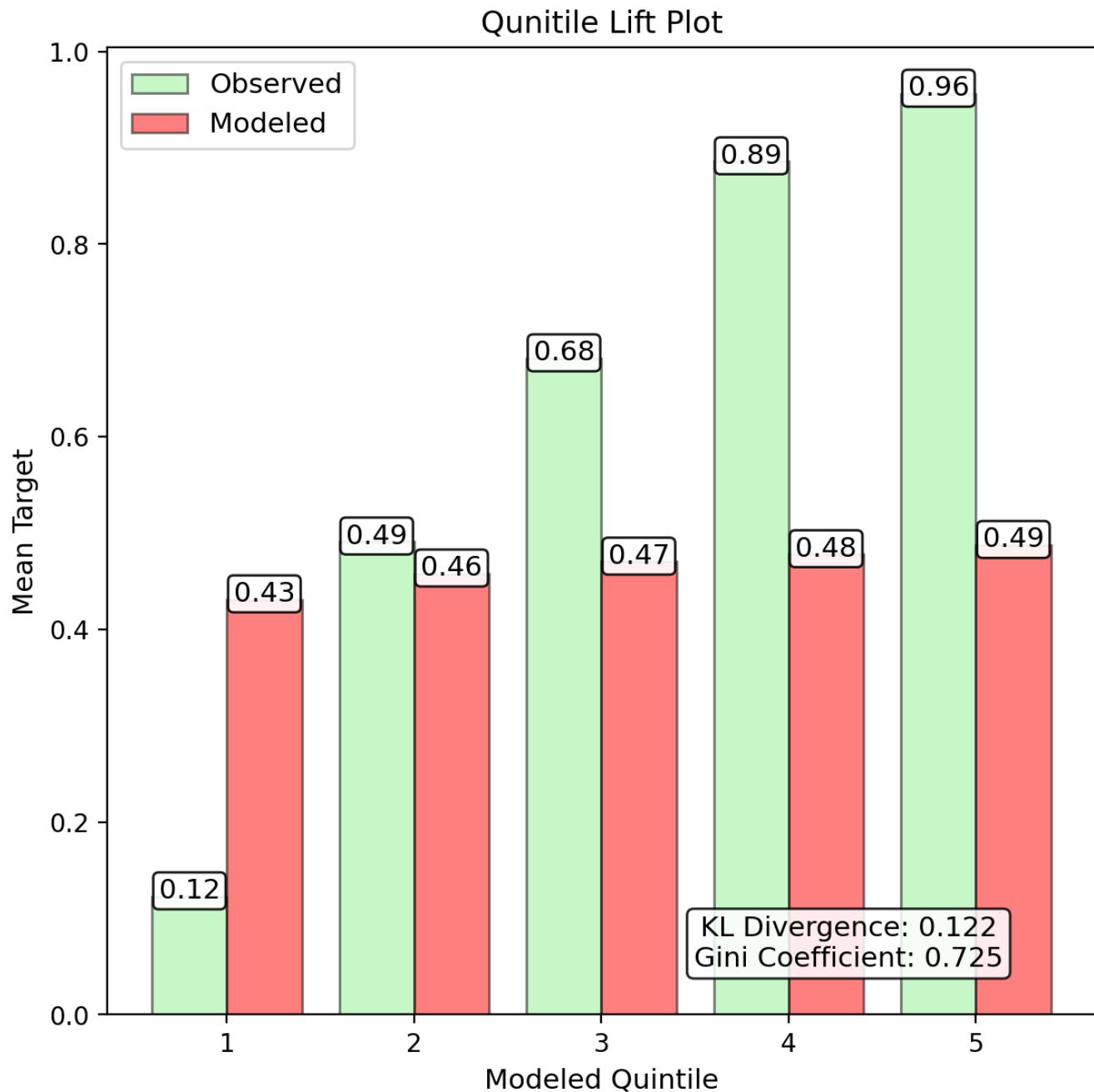
Univariate Report

Worst Compactness - ROC Curve



Univariate Report

Worst Compactness - Quintile Lift



Univariate Report

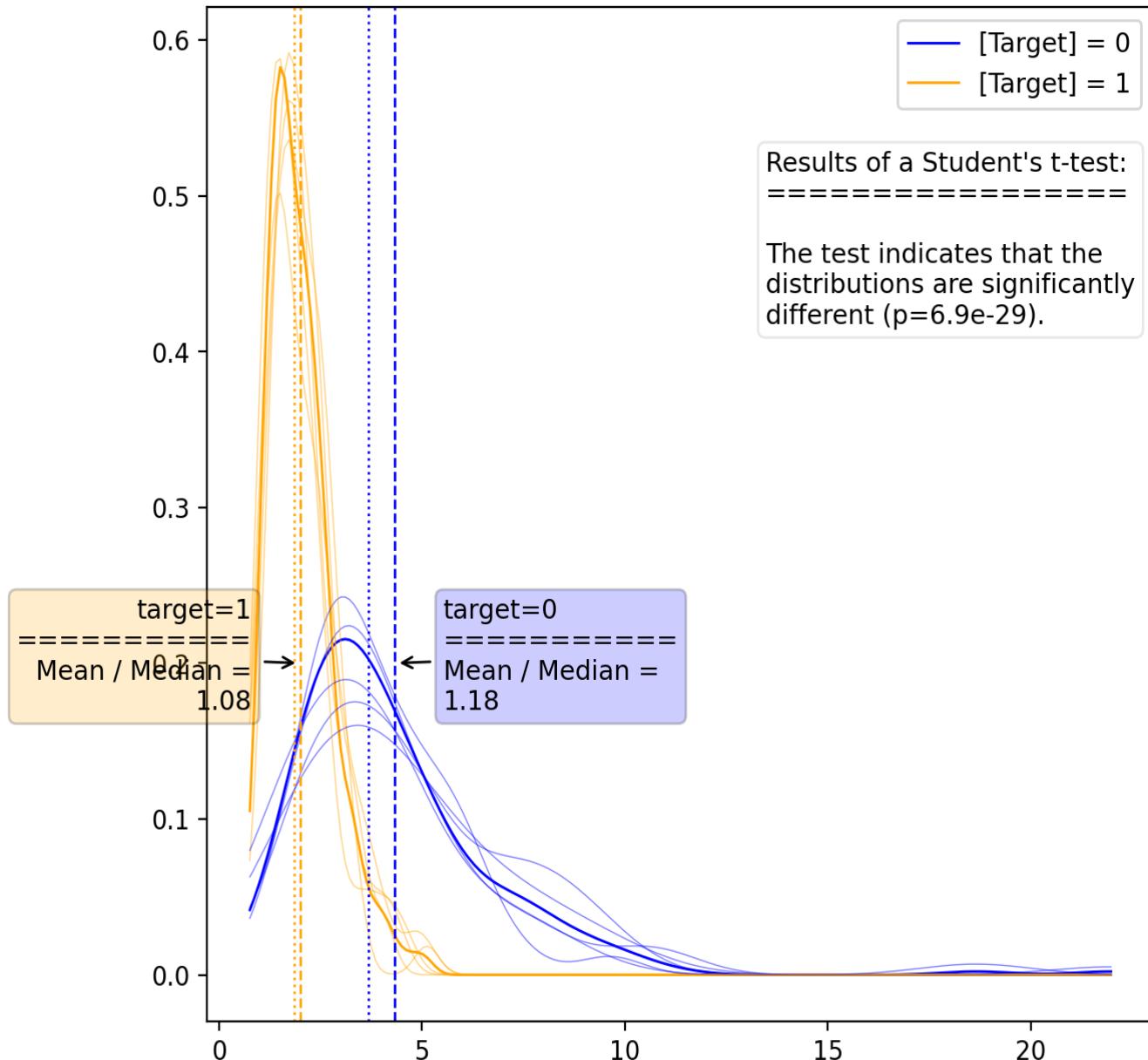
Perimeter Error - Results

	Fold-1	Fold-2	Fold-3	Fold-4	Fold-5	Agg. Mean	Agg. SD
Fitted Coef.	-6.7e-02	-6.4e-02	-4.4e-02	-6.3e-02	-5.0e-02	-5.8e-02	9.9e-03
Fitted p-Value	1.5e-02	2.0e-02	1.3e-01	2.1e-02	6.2e-02	1.9e-02	4.8e-02
Fitted Std. Err.	2.7e-02	2.7e-02	2.9e-02	2.7e-02	2.7e-02	2.5e-02	7.4e-04
Conf. Int. Lower	-1.2e-01	-1.2e-01	-1.0e-01	-1.2e-01	-1.0e-01	-1.1e-01	9.0e-03
Conf. Int. Upper	-1.3e-02	-1.0e-02	1.3e-02	-9.5e-03	2.6e-03	-9.6e-03	1.1e-02
Train Accuracy	37.6%	37.8%	36.1%	38.6%	36.2%	37.3%	1.1%
Val Accuracy	35.8%	35.1%	41.1%	31.8%	42.4%	37.3%	4.4%
Train AUC	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	0.0%
Val AUC	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	0.0%
Train F1	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Test F1	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Train Precision	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Val Precision	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Train Recall	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Val Recall	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Train MCC	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Val MCC	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Train Log-Loss	22.48	22.43	23.02	22.14	23.01	22.61	0.38
Val Log-Loss	23.13	23.38	21.24	24.58	20.75	22.61	1.59

Univariate Report

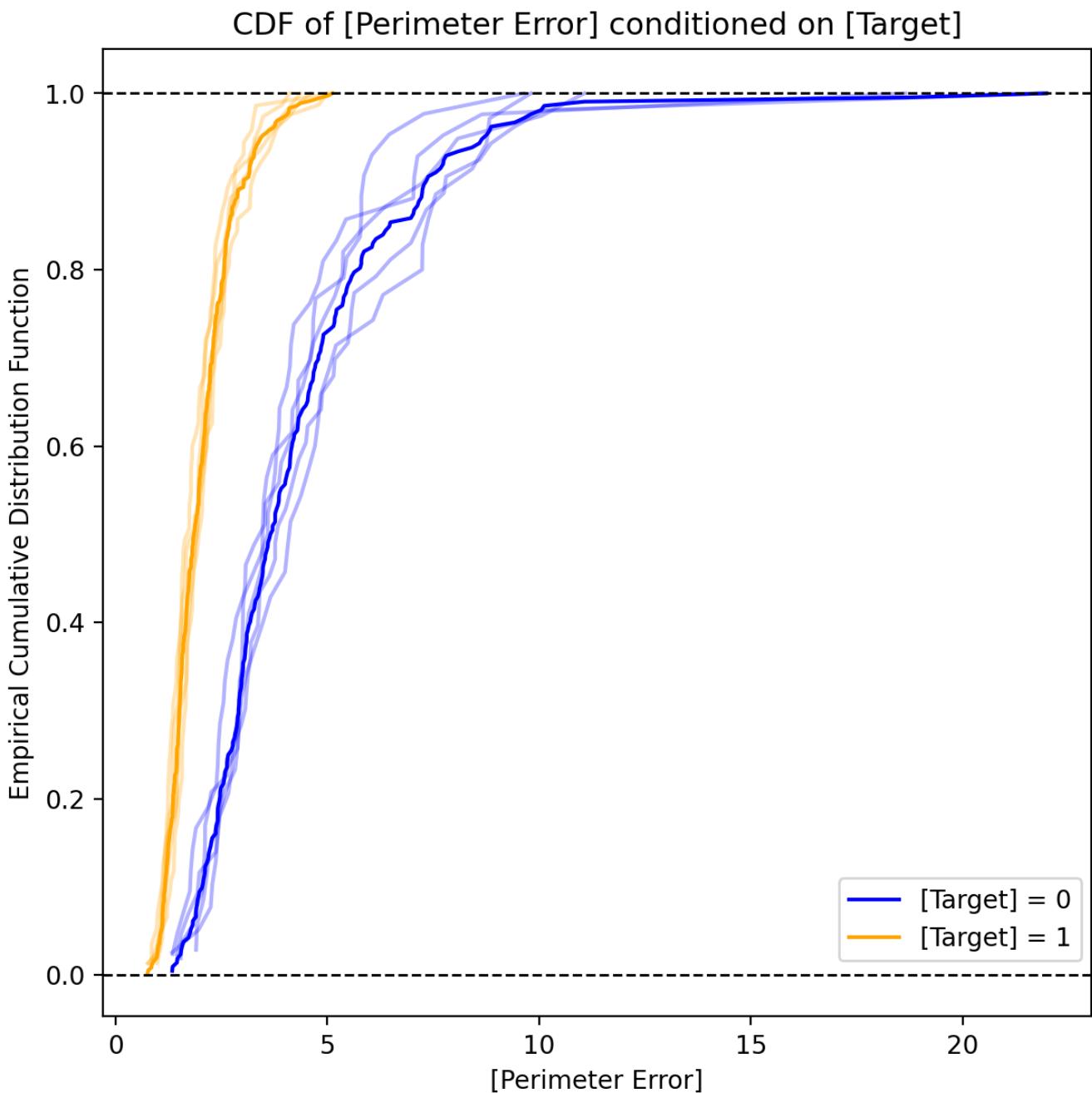
Perimeter Error - Kernel Density Plot

Density Plot of [[Perimeter Error]] by [[Target]]
Distributions by level are significantly different at the 95% level.



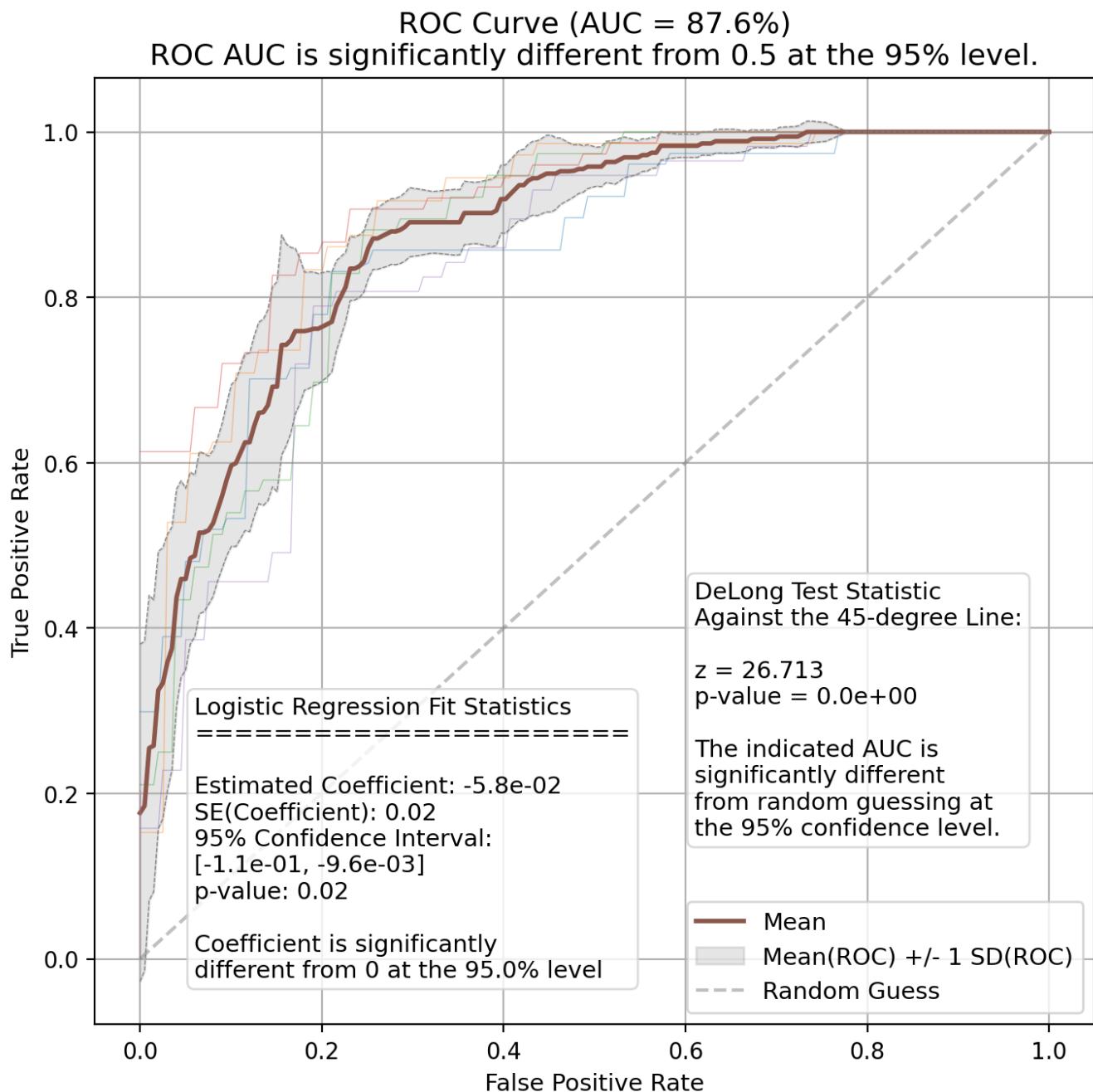
Univariate Report

Perimeter Error - Empirical CDF Plot



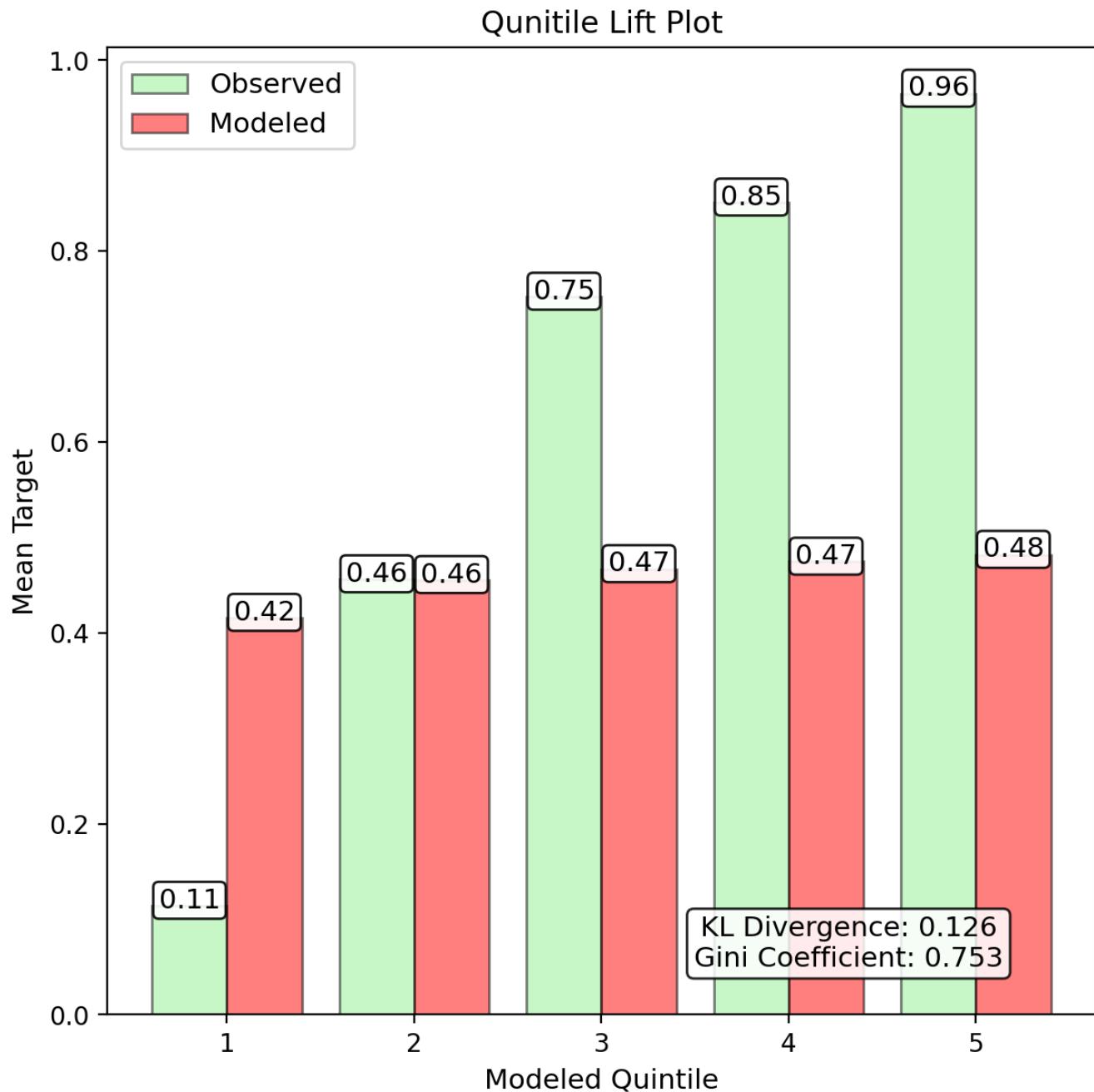
Univariate Report

Perimeter Error - ROC Curve



Univariate Report

Perimeter Error - Quintile Lift



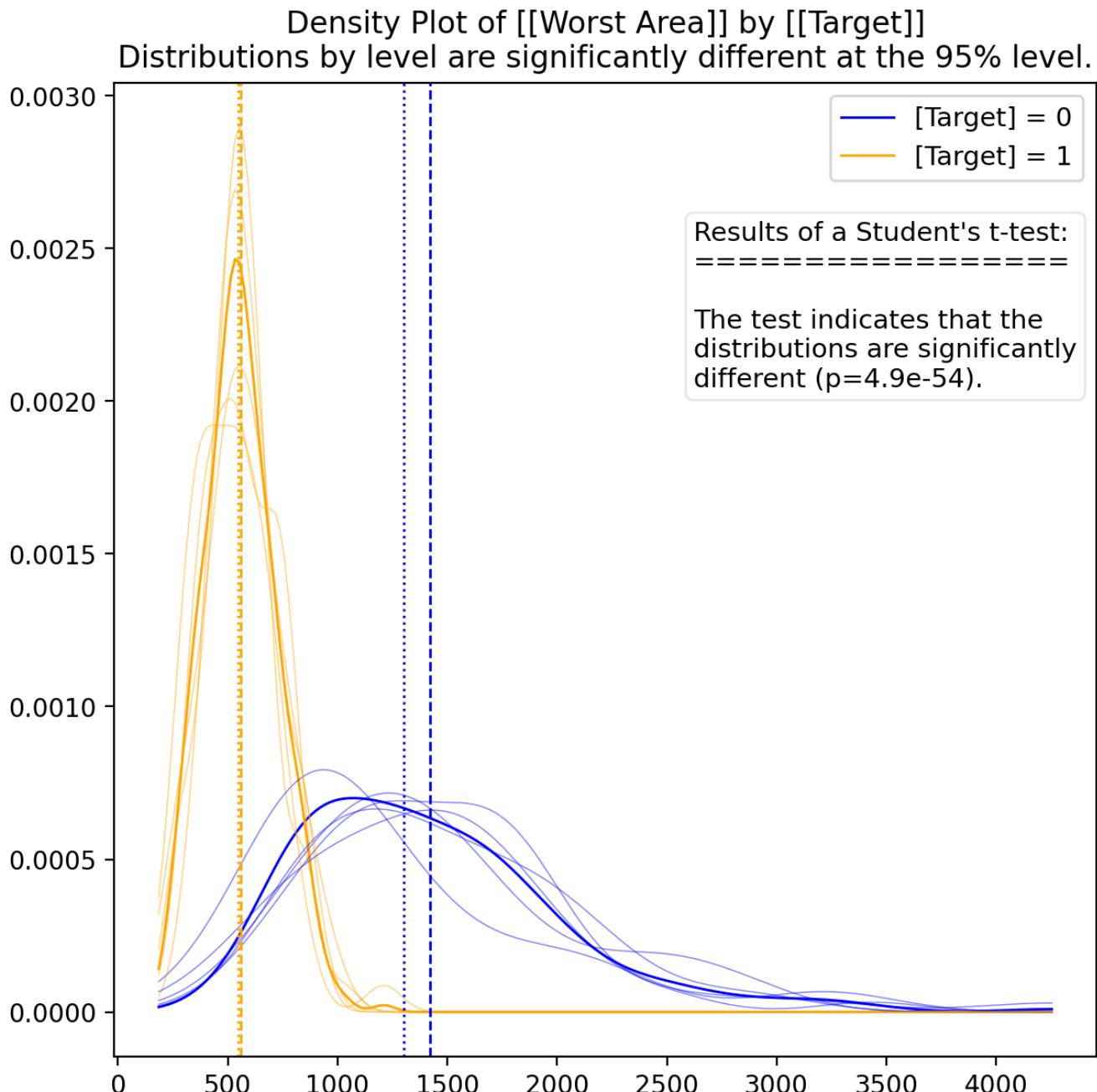
Univariate Report

Worst Area - Results

	Fold-1	Fold-2	Fold-3	Fold-4	Fold-5	Agg. Mean	Agg. SD
Fitted Coef.	-3.3e-04	-3.7e-04	-2.9e-04	-3.7e-04	-2.8e-04	-3.3e-04	4.2e-05
Fitted p-Value	4.0e-04	7.0e-05	2.3e-03	7.5e-05	2.3e-03	8.2e-05	1.2e-03
Fitted Std. Err.	9.5e-05	9.3e-05	9.5e-05	9.4e-05	9.2e-05	8.4e-05	1.2e-06
Conf. Int. Lower	-5.2e-04	-5.5e-04	-4.8e-04	-5.5e-04	-4.6e-04	-4.9e-04	4.2e-05
Conf. Int. Upper	-1.5e-04	-1.9e-04	-1.0e-04	-1.9e-04	-1.0e-04	-1.7e-04	4.2e-05
Train Accuracy	37.6%	37.8%	36.1%	38.6%	36.2%	37.3%	1.1%
Val Accuracy	35.8%	35.1%	41.1%	31.8%	42.4%	37.3%	4.4%
Train AUC	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	0.0%
Val AUC	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	0.0%
Train F1	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Test F1	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Train Precision	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Val Precision	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Train Recall	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Val Recall	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Train MCC	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Val MCC	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Train Log-Loss	22.48	22.43	23.02	22.14	23.01	22.61	0.38
Val Log-Loss	23.13	23.38	21.24	24.58	20.75	22.61	1.59

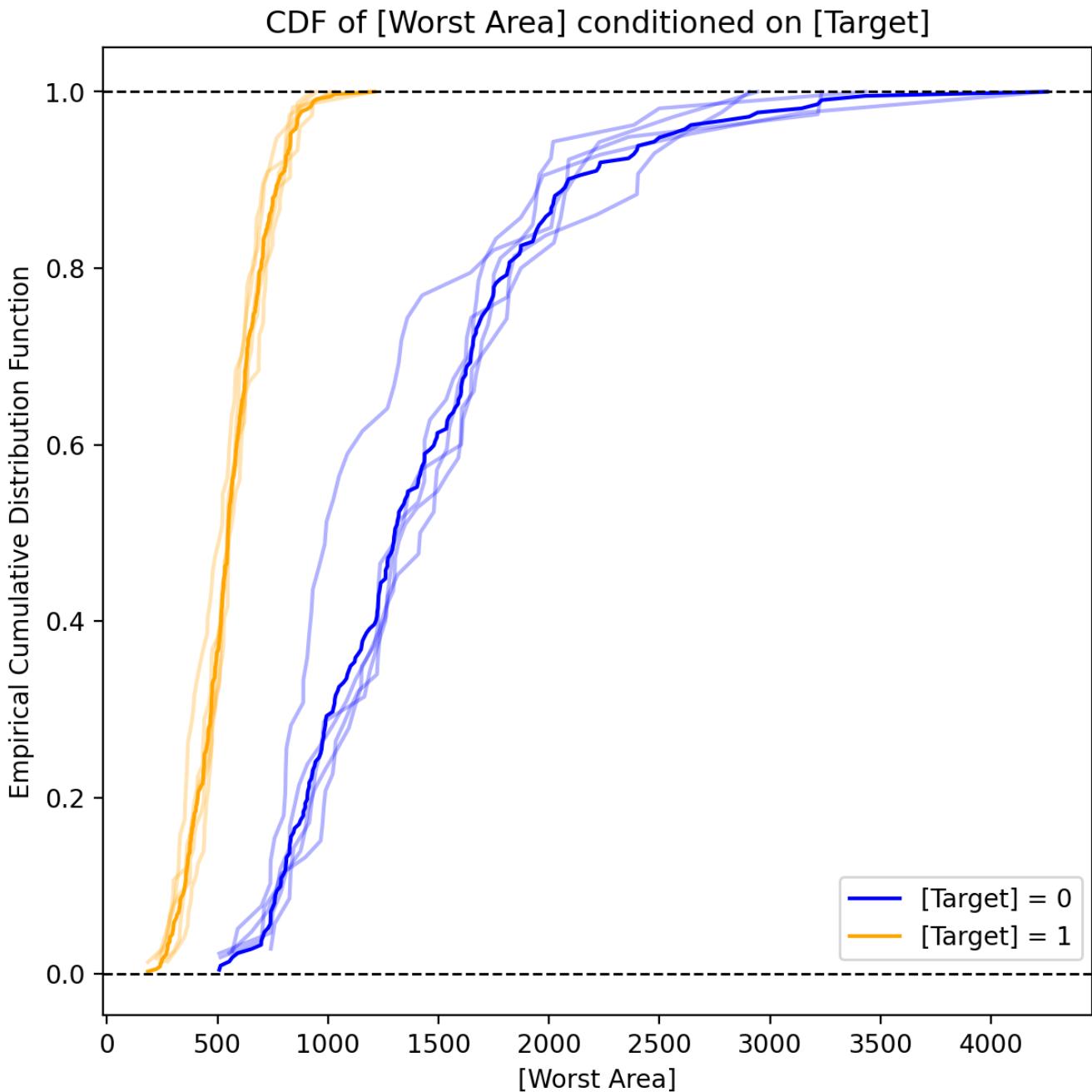
Univariate Report

Worst Area - Kernel Density Plot



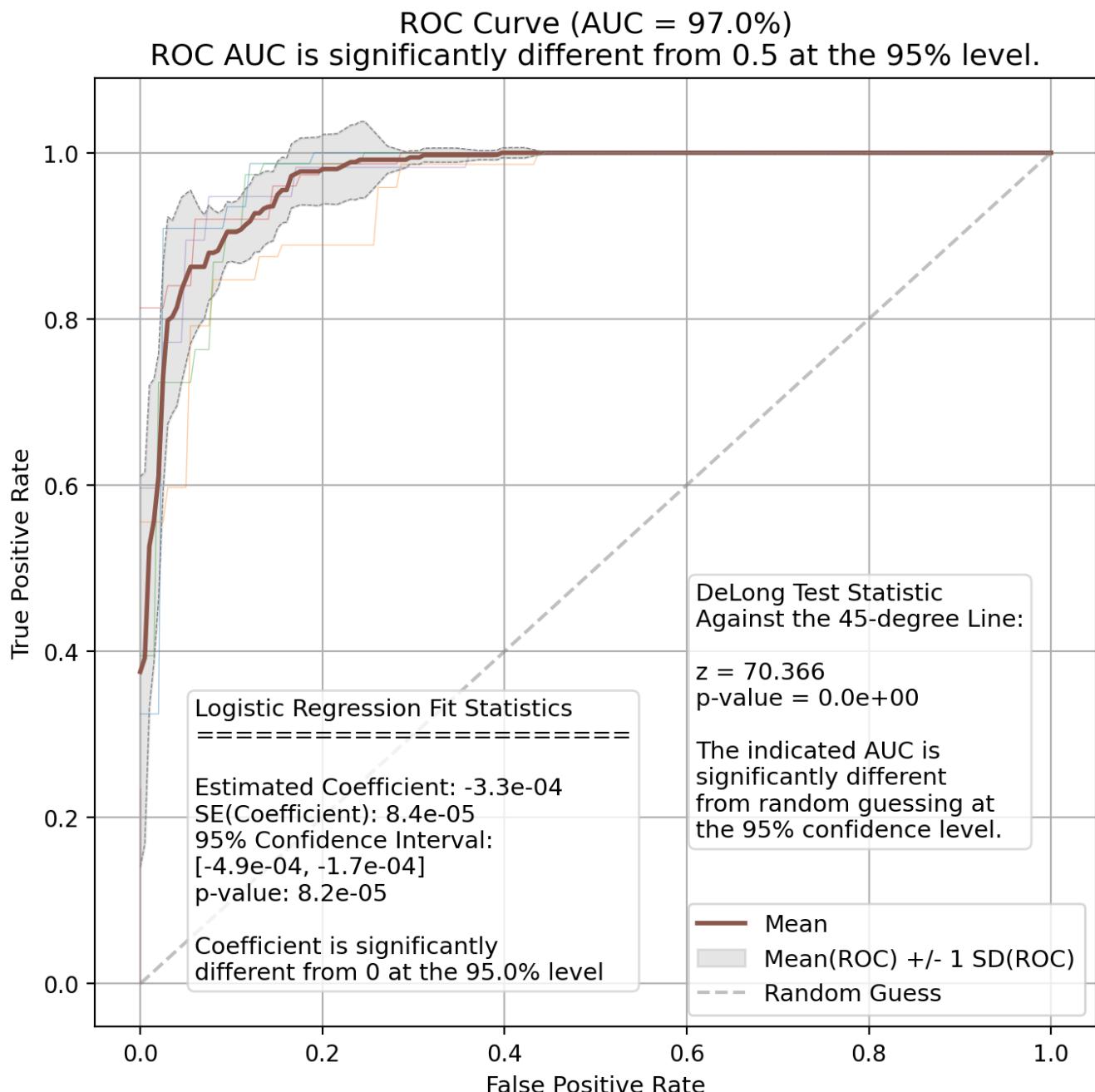
Univariate Report

Worst Area - Empirical CDF Plot



Univariate Report

Worst Area - ROC Curve



Univariate Report

Worst Area - Quintile Lift

