Future Returns Analysis for test\_independent\_eval (Model from Epoch: best\_model\_file)

--- Returns Analysis for Threshold: 0.25 ---

|Prediction Type |Fut\_Low\_Mean|Fut\_Low\_Median|Fut\_Low\_Q1|Fut\_Low\_Q3|Fut\_High\_Mean|Fut\_High\_Median|Fut\_High\_Q1|Fut\_High\_Q3| Min\_Score\_Mean| Min\_Score\_Median| Min\_Score\_Q1| Min\_Score\_Q3| Min\_Score\_Std| Max\_Score\_Mean| Max\_Score\_Median| Max\_Score\_Q1| Max\_Score\_Q3| Max\_Score\_Std| N\_Pred|

|-------------------|------------|--------------|----------|----------|-------------|---------------|-----------|-----------|----------------|------------------|--------------|--------------|---------------|----------------|------------------|--------------|--------------|---------------|-------|

|Min Predictions | -0.4825| -0.2768| -0.5946| -0.1247| 0.4067| 0.3070| 0.1780| 0.5157| 0.3514| 0.3013| 0.2144| 0.4408| 0.1934| 0.1550| 0.1438| 0.1175| 0.1718| 0.0840| 2383|

|Max Predictions | -0.4671| -0.3321| -0.5895| -0.1791| 0.5174| 0.2990| 0.1403| 0.6111| 0.1561| 0.1414| 0.1147| 0.1736| 0.0928| 0.3454| 0.2968| 0.2075| 0.4274| 0.1938| 2510|

Price Change Direction after 6 steps (for signals at threshold 0.25):

For Min Pred (N\_pred=2383, N\_valid\_comp=2383): Up: 1432, Down: 951, Neutral: 0 | Up Pct (of Up+Down): 60.09%, Up/Down Ratio: 1.51

For Max Pred (N\_pred=2510, N\_valid\_comp=2510): Up: 1083, Down: 1427, Neutral: 0 | Up Pct (of Up+Down): 43.15%, Up/Down Ratio: 0.76

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--- Returns Analysis for Threshold: 0.50 ---

|Prediction Type |Fut\_Low\_Mean|Fut\_Low\_Median|Fut\_Low\_Q1|Fut\_Low\_Q3|Fut\_High\_Mean|Fut\_High\_Median|Fut\_High\_Q1|Fut\_High\_Q3| Min\_Score\_Mean| Min\_Score\_Median| Min\_Score\_Q1| Min\_Score\_Q3| Min\_Score\_Std| Max\_Score\_Mean| Max\_Score\_Median| Max\_Score\_Q1| Max\_Score\_Q3| Max\_Score\_Std| N\_Pred|

|-------------------|------------|--------------|----------|----------|-------------|---------------|-----------|-----------|----------------|------------------|--------------|--------------|---------------|----------------|------------------|--------------|--------------|---------------|-------|

|Min Predictions | -0.7657| -0.4732| -0.9274| -0.1910| 0.6580| 0.5181| 0.2941| 0.8545| 0.6245| 0.6524| 0.4748| 0.7987| 0.2392| 0.1424| 0.1093| 0.0600| 0.1877| 0.1307| 279|

|Max Predictions | -0.8817| -0.6826| -1.1645| -0.3382| 0.7935| 0.4672| 0.2005| 0.9507| 0.1274| 0.0886| 0.0417| 0.1637| 0.1392| 0.6497| 0.6889| 0.5106| 0.8436| 0.2384| 254|

Price Change Direction after 6 steps (for signals at threshold 0.50):

For Min Pred (N\_pred=279, N\_valid\_comp=279): Up: 175, Down: 104, Neutral: 0 | Up Pct (of Up+Down): 62.72%, Up/Down Ratio: 1.68

For Max Pred (N\_pred=254, N\_valid\_comp=254): Up: 97, Down: 157, Neutral: 0 | Up Pct (of Up+Down): 38.19%, Up/Down Ratio: 0.62

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--- Returns Analysis for Threshold: 0.75 ---

|Prediction Type |Fut\_Low\_Mean|Fut\_Low\_Median|Fut\_Low\_Q1|Fut\_Low\_Q3|Fut\_High\_Mean|Fut\_High\_Median|Fut\_High\_Q1|Fut\_High\_Q3| Min\_Score\_Mean| Min\_Score\_Median| Min\_Score\_Q1| Min\_Score\_Q3| Min\_Score\_Std| Max\_Score\_Mean| Max\_Score\_Median| Max\_Score\_Q1| Max\_Score\_Q3| Max\_Score\_Std| N\_Pred|

|-------------------|------------|--------------|----------|----------|-------------|---------------|-----------|-----------|----------------|------------------|--------------|--------------|---------------|----------------|------------------|--------------|--------------|---------------|-------|

|Min Predictions | -1.4304| -1.0771| -2.1123| -0.3041| 1.3861| 1.0286| 0.6455| 1.5128| 0.8040| 0.9601| 0.7005| 0.9934| 0.2706| 0.1111| 0.0239| 0.0027| 0.1583| 0.1661| 30|

|Max Predictions | -1.2291| -0.8907| -1.6920| -0.3776| 1.2935| 0.9725| 0.4217| 1.9012| 0.0782| 0.0312| 0.0070| 0.0701| 0.1638| 0.8500| 0.9188| 0.8331| 0.9816| 0.1985| 34|

Price Change Direction after 6 steps (for signals at threshold 0.75):

For Min Pred (N\_pred=30, N\_valid\_comp=30): Up: 16, Down: 14, Neutral: 0 | Up Pct (of Up+Down): 53.33%, Up/Down Ratio: 1.14

For Max Pred (N\_pred=34, N\_valid\_comp=34): Up: 17, Down: 17, Neutral: 0 | Up Pct (of Up+Down): 50.00%, Up/Down Ratio: 1.00

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