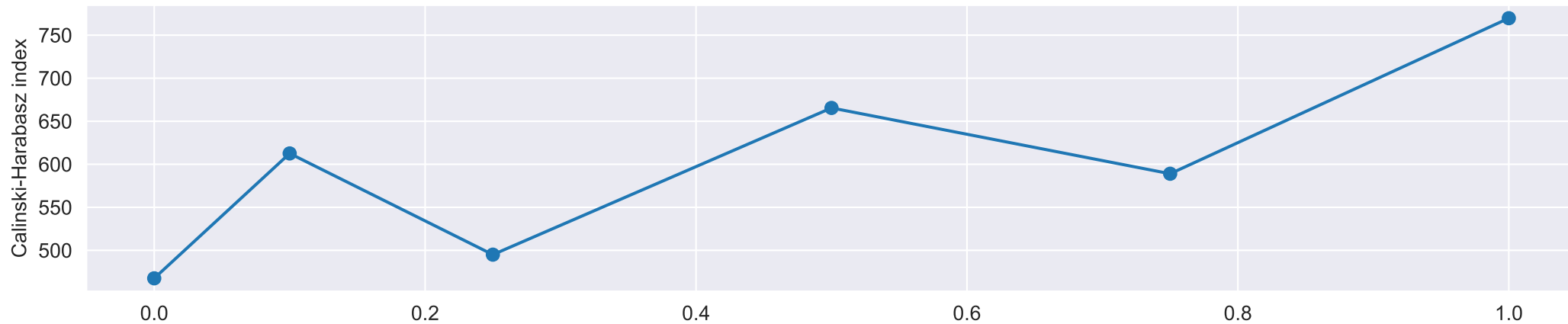Calinski-Harabasz index for different standard deviations

standard deviation

Calinski-Harabasz index interval: [0; +∞)
0: lowest and worst value
+∞: highest and best value

Expexted trend: increasing
Observed trend: irregula trend
Outcome: wrong