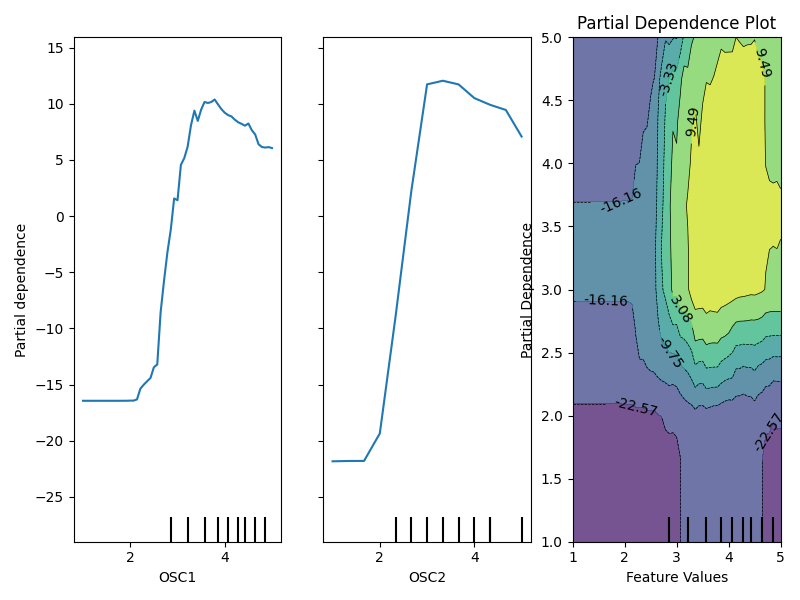
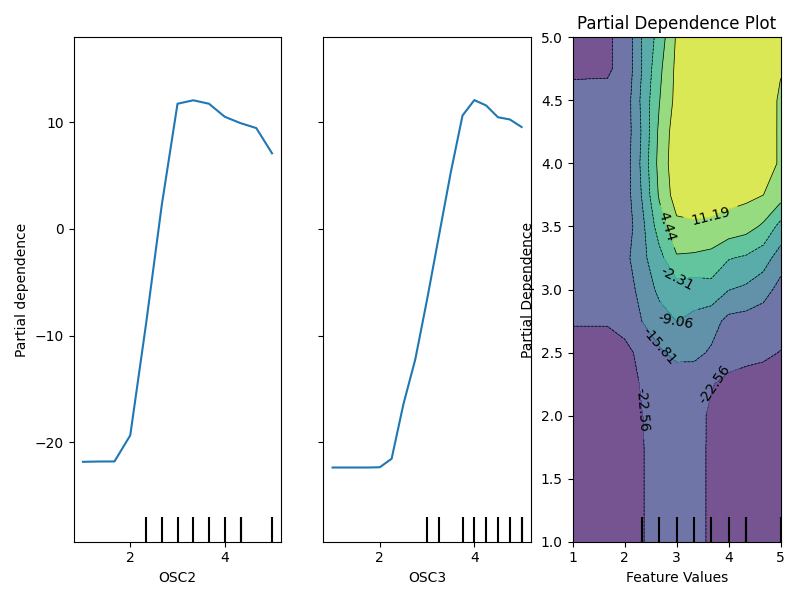
DBSCAN 聚类：

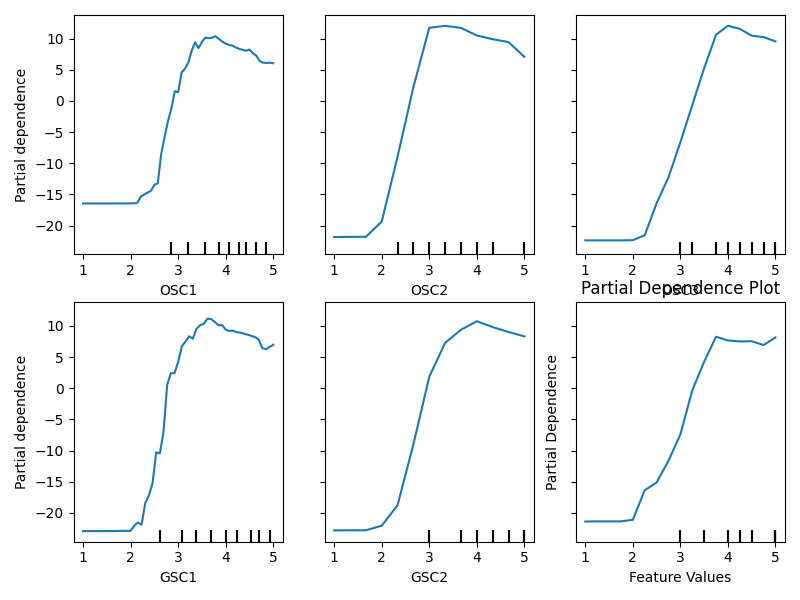
DBSCAN(eps=0.946, min\_samples=230)

Partial Dependence Plot (PDP)

pdp\_display=PartialDependenceDisplay.from\_estimator(clf, X\_train, features)

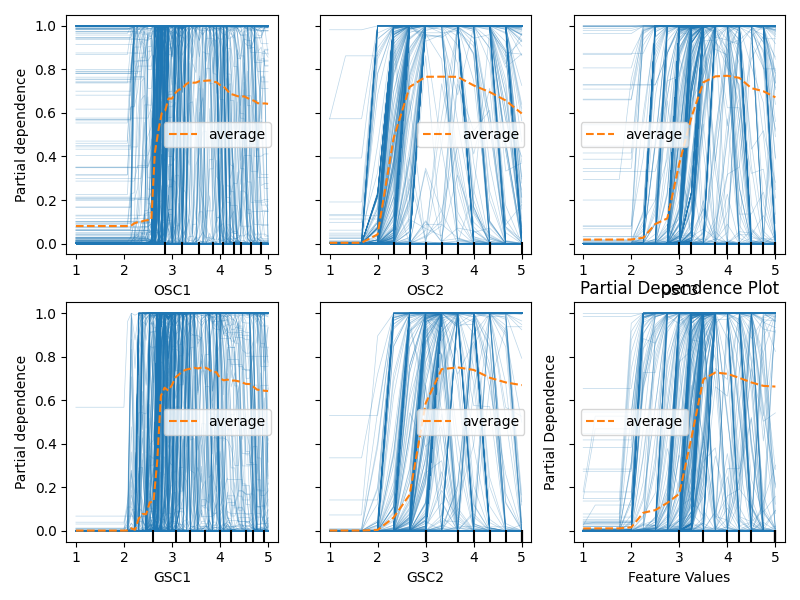




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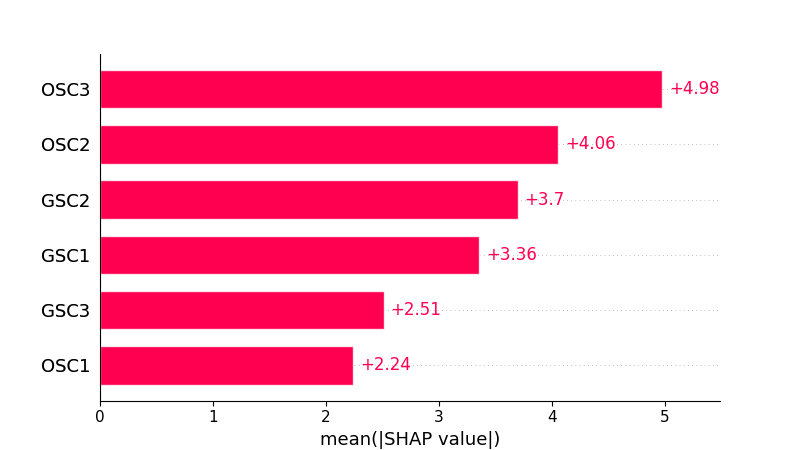
Individual Conditional Expectation (ICE),

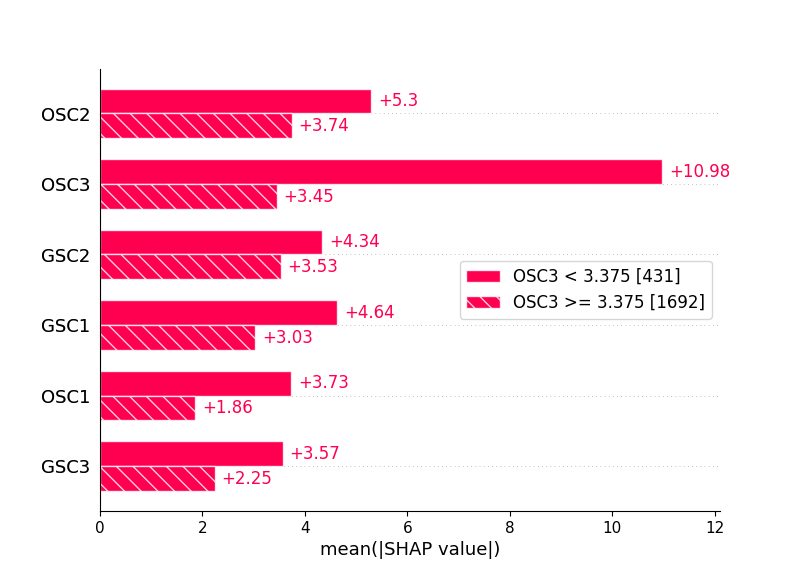
pdp\_display=PartialDependenceDisplay.from\_estimator(clf, X\_train, features,kind='both', centered=True)

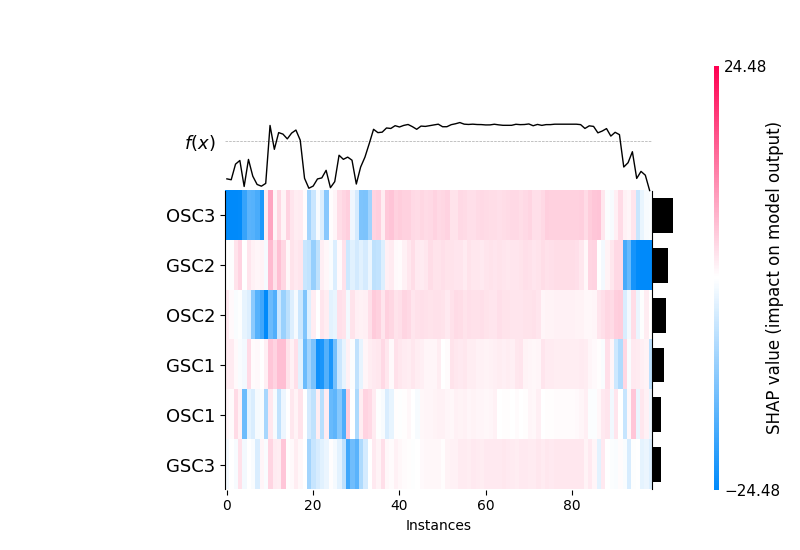


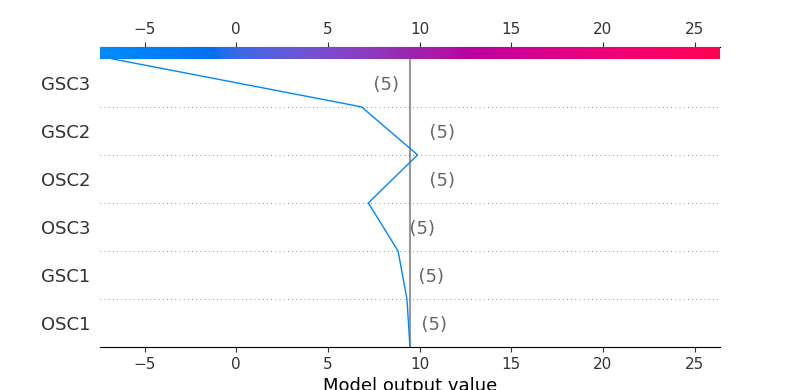
Shapley Value (SHAP)

explainer = shap.Explainer(clf)  
shap\_values = explainer(X\_test)  
shap.plots.bar(shap\_values, max\_display=10)







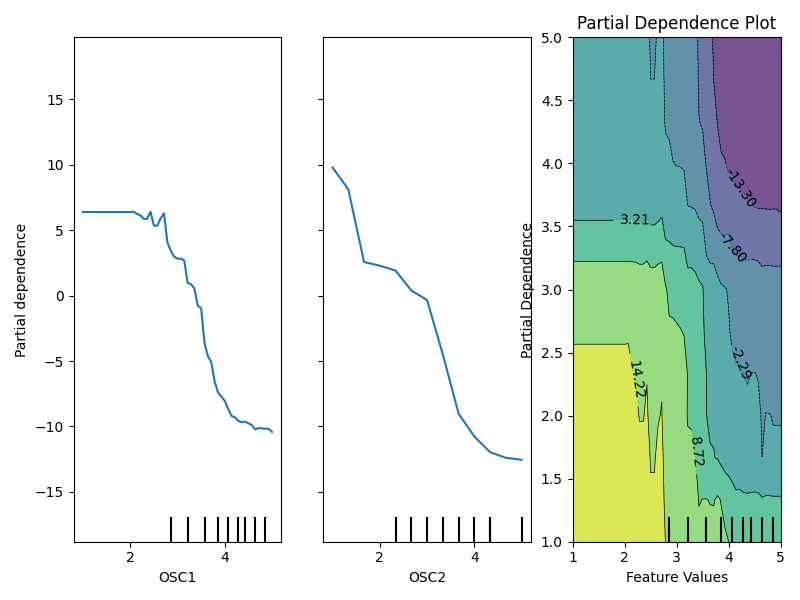


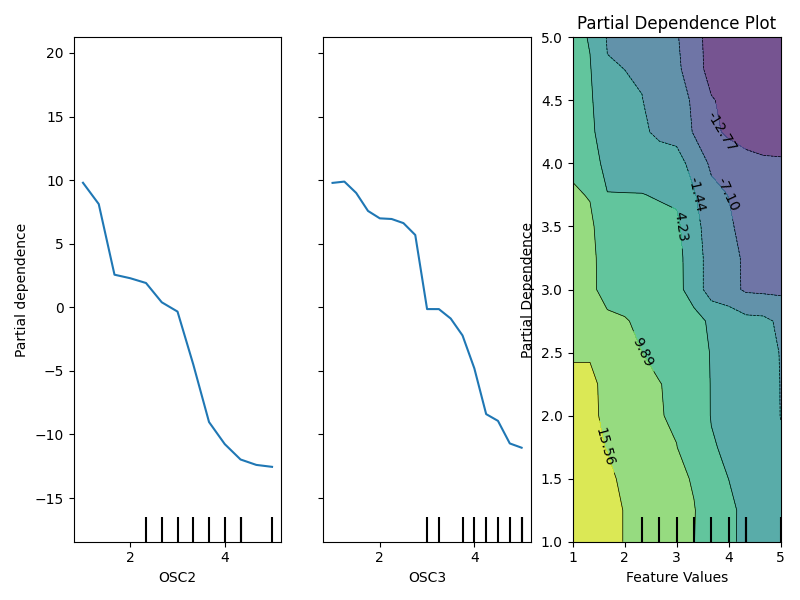
Kmeans 聚类

：

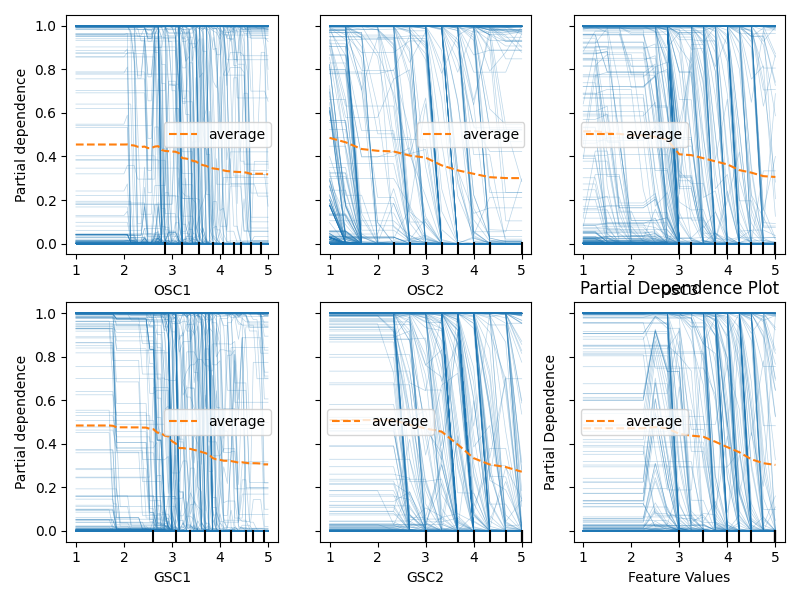
m = KMeans(n\_clusters = 2, init = 'k-means++', random\_state=0)  
m.fit(X)

Partial Dependence Plot (PDP)

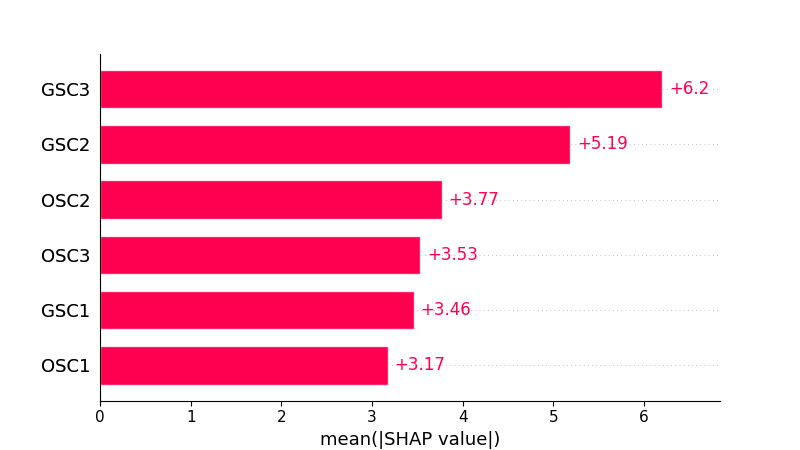


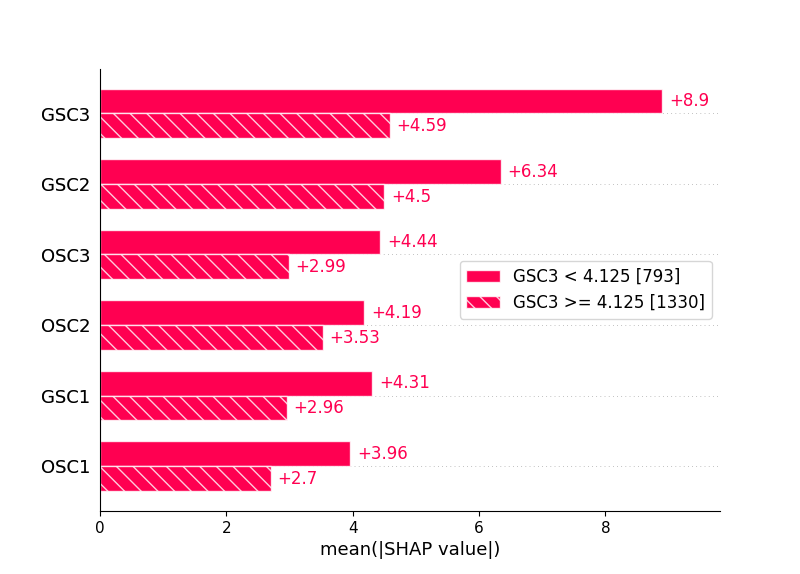


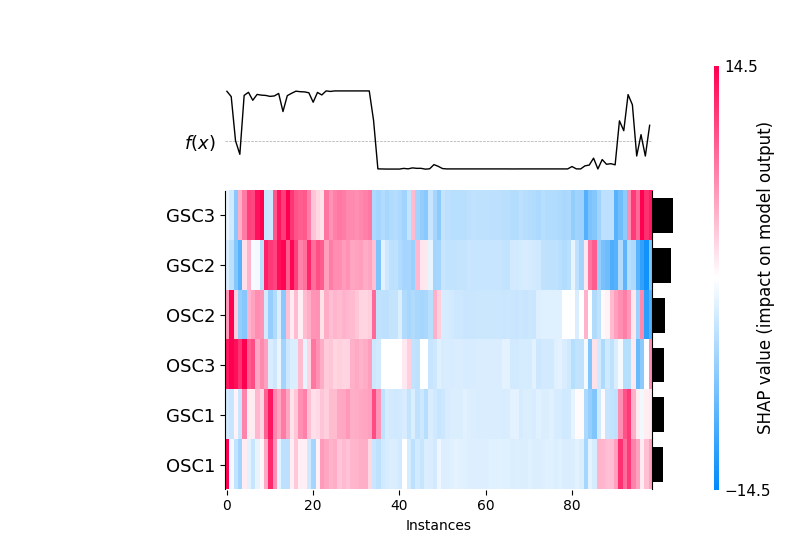
Individual Conditional Expectation (ICE),



Shapley Value (SHAP)



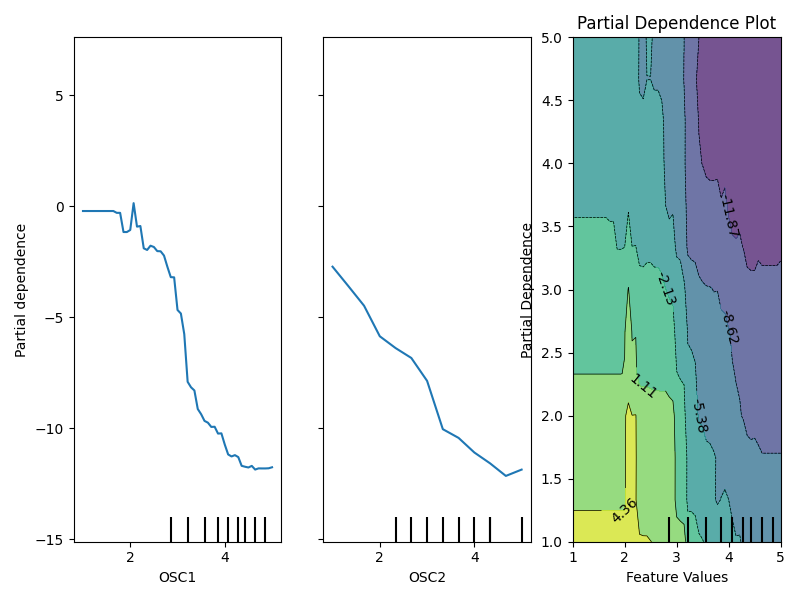


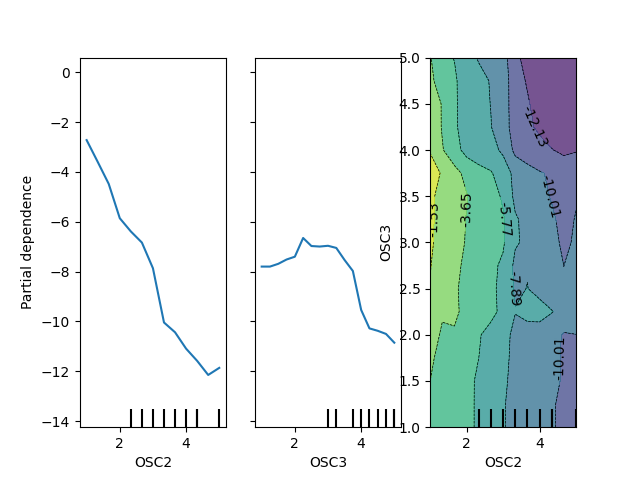


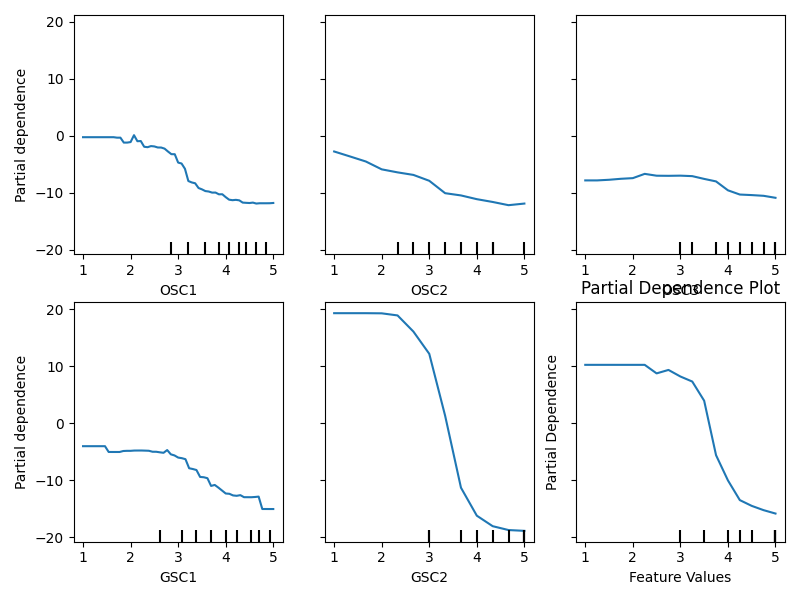
分层聚类

m = AgglomerativeClustering(n\_clusters=2)

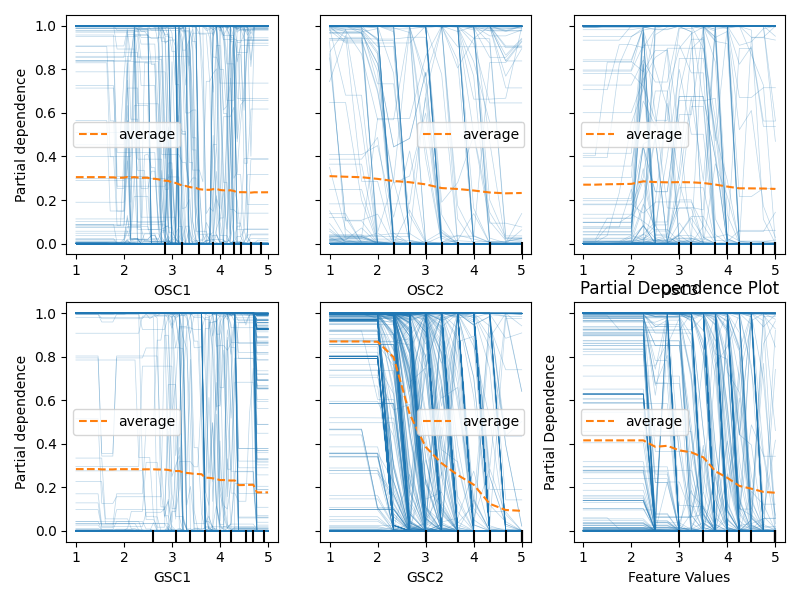
Partial Dependence Plot (PDP)







Individual Conditional Expectation (ICE),



Shapley Value (SHAP)

