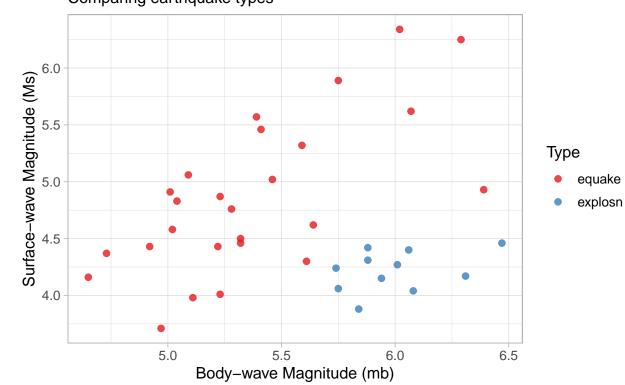
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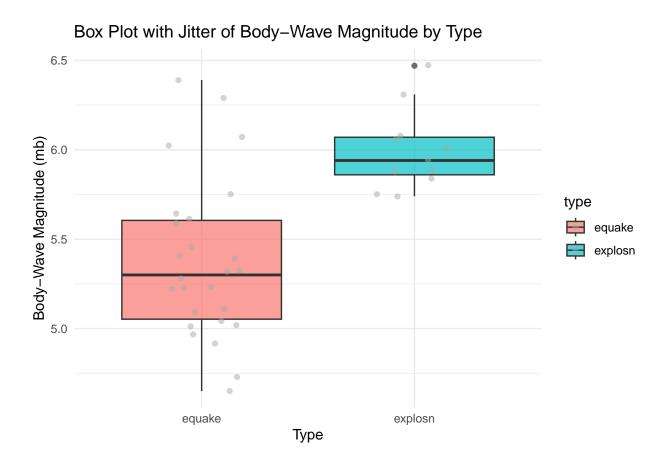
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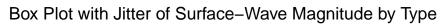
2024-04-08

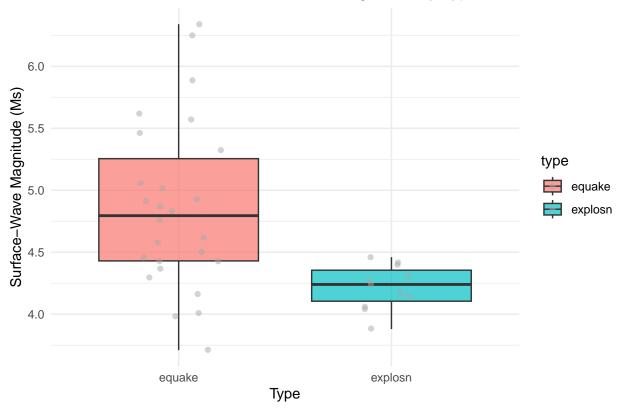
ML part A

Body-wave Magnitude vs. Surface-wave Magnitude Comparing earthquake types





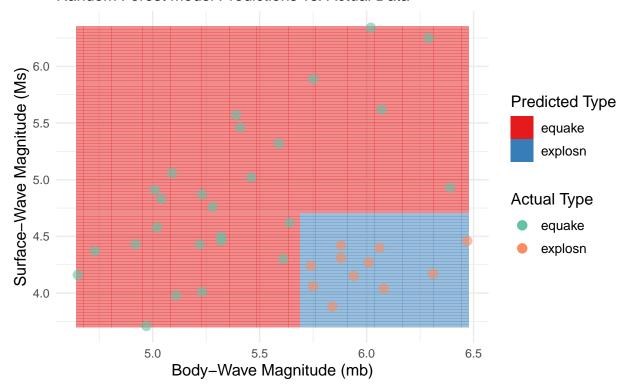




ML part B

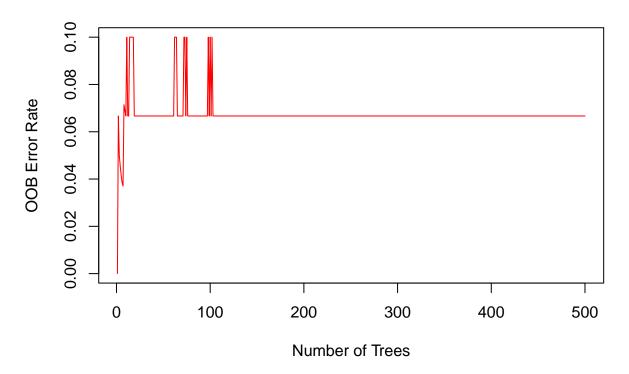
Earthquake vs. Nuclear Explosion Prediction

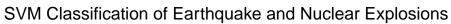
Random Forest Model Predictions vs. Actual Data

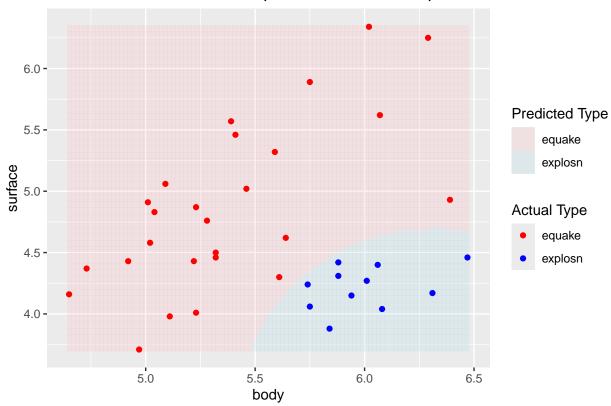


error rate

OOB Error Rate vs. Number of Trees

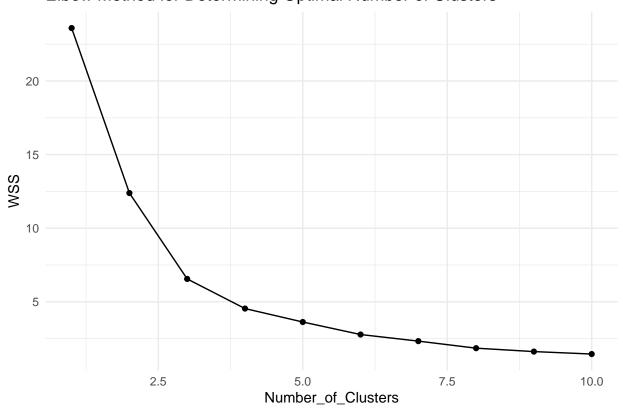






sigma C ##8 0.1 100

 ${\bf Part\ D}$ Elbow Method for Determining Optimal Number of Clusters



##		Number_of_Clusters	WSS
##	1	1	23.592897
##	2	2	12.387641
##	3	3	6.553864
##	4	4	4.542412
##	5	5	3.629814
##	6	6	2.777913
##	7	7	2.330693
##	8	8	1.851582
##	9	9	1.620152
##	10	10	1.453002

