



Mineral classification - Random Forest (Test Set)

N.Samples = 300 for each group, N.Trees = 150, 70-30% split, 5-fold, Accuracy: 100%

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Prediction	ZIRCON •	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
	TITANITE •	0	0	0	0	0	0	0	0	0	0	0.01	0	0	0	0	1	0
	SULFIDE •	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
	SPINEL -	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
	QUARTZ •	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
	PYROXENE •	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
	PEROVSKITE •	0	0	0	0	0	0	0	0	0	0	0.99	0	0	0	0	0	0
	OLIVINE •	0.01	0	0	0	0	0	0	0	0	0.99	0	0	0	0	0	0	0
	MICA -	0	0	0	0	0	0	0	0	0.98	0	0	0	0	0	0	0	0
	ILMENITE •	0	0	0	0.01	0	0	0	1	0	0	0	0	0	0	0	0	0
	GARNET •	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
	ELDSPATHOID •	0	0	0	0	0	1	0	0	0.01	0	0	0	0	0	0	0	0
	FELDSPAR •	0	0	0	0	0.99	0	0	0	0	0	0	0	0	0	0	0	0
	CLAY -	0	0	0	0.99	0	0	0	0	0	0	0	0	0	0	0	0	0
	CARBONATE -	0	0	1	0	0	0	0	0	0	0.01	0	0	0	0	0	0	0
	APATITE •	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	AMPHIBOLES -	0.99	0	0	0	0.01	0	0	0	0.01	0	0	0	0	0	0	0	0
		AMPHIBOLES -	APATITE -	CARBONATE -	CLAY -	FELDSPAR -	FELDSPATHOID -	GARNET -	ILMENITE	MICA	OLIVINE	PEROVSKITE -	PYROXENE -	QUARTZ -	SPINEL -	SULFIDE -	TITANITE	ZIRCON -

Reference