Summary of the Random Forest Model

Number of observations used to build the model: 4106

Call: randomForest(formula = activity ~ ., data = crs\$dataset[crs\$sample, c(crs\$input, crs\$target)], ntree = 500, mtry = 23,

importance = TRUE)

Type of random forest: classification

Number of trees: 500 No. of variables tried at each split: 23

OOB estimate of error rate: 2.34%

OOD Cotiiii	OOD Estimate of Citof fate: 2.54%									
Confusion matrix:										
	laying	sitting	standing	walk	walkdown	walkup	class.error			
laying	750	1	0	0	0	0	0.001331558			
sitting	0	691	24	0	0	1	0.034916201			
standing	0	35	743	0	0	0	0.044987147			
walk	0	0	0	645	8	7	0.022727273			
walkdown	0	0	0	6	560	4	0.01754386			
walkup	0	0	0	2	8	621	0.015847861			

Error matrix for the Random Forest model on Samsung Data [validate] (counts):

	Predicted								
Actual	laying	sitting	standing	walk	walkdown	walkup			
laying	182	0	0	0	0	0			
sitting	0	163	3	0	0	0			
standing	0	5	145	0	0	0			
walk	0	0	0	158	0	0			
walkdown	0	0	0	0	107	0			
walkup	0	0	0	0	0	117			

Error matrix for the Random Forest model on Samsung Data [preliminary test] (counts):

Predicted								
Actual	laying	sitting	standing	walk	walkdown	walkup		
laying	181	0	0	0	0	0		
sitting	0	136	4	0	0	0		
standing	0	5	158	0	0	0		
walk	0	0	0	174	2	3		
walkdown	0	0	0	0	107	2		
walkup	0	0	0	0	2	107		

Error matrix for the Random Forest model on Samsung Data [preliminary test] (%):

Predicted								
Actual	laying	sitting	standing	walk	walkdown	walkup		
laying	21	0	0	0	0	0		
sitting	0	15	0	0	0	0		
standing	0	1	18	0	0	0		
walk	0	0	0	20	0	0		
walkdown	0	0	0	0	12	0		
walkup	0	0	0	0	0	12		

Error matrix for the Random Forest model on Samsung Data [test set: ID 27 - 30] (counts):

			Predicted			
Actual	laying	sitting	standing	walk	walkdown	walkup
laying	293	0	0	0	0	0
sitting	0	226	38	0	0	0
standing	0	16	267	0	0	0
walk	0	0	0	228	0	1
walkdown	0	0	0	2	194	4
walkup	0	0	0	1	1	214

Error matrix for the Random Forest model on Samsung Data Itest set: ID 27 - 301 (%):

Predicted								
Actual	laying	sitting	standing	walk	walkdown	walkup		
laying	20	0	0	0	0	0		
sitting	0	15	3	0	0	0		
standing	0	1	18	0	0	0		
walk	0	0	0	15	0	0		
walkdown	0	0	0	0	13	0		
walkup	0	0	0	0	0	14		

Rattle timestamp: 2013-03-06 17:38:04 SHANNON