## Results to date

## Brooke Anderson January 20, 2016

Model	Training accuracy	Testing Accuracy
Class	0.6161616	0.62679
probabilities		
model		
Naive Bayes		
Passenger class	0.67901	0.65550
A	0.617004	0.69901
Age	0.617284	0.62201
Sex	0.7867565	0.76555
Class, Sex, Embarked	0.77778	0.73684
Kitchen Sink	0.90947	0.67464
k-Nearest	0.80247	0.07404
Neighbors		
Age, $k = 1$	0.67677	0.57416
Fare, $k = 1$	0.80696	0.64115
Age, Fare,	0.76431	0.61244
SibSp, $k = 5$	0.10491	0.01244
Sex, Pclass, k	0.77441	0.76555
=5		
Sex, Pclass,	0.8642	0.73206
	0.81818	0.73206
-		
	0.80808	0.74641
O /		
	0.80359	0.74163
O /	0.70700	0.75100
	0.79798	0.75120
-	0.79799	0.77033
, ,	0.10100	0.11033
O /	0.77890	0.76555
	0.11000	0.10000
-		
obs		
	0.8096244	0.68421
Pclass_ordered,		
Sex:Pclass_order	red	
Sex, Pclass, $k = 5$ Sex, Pclass, Age, $k = 1$ Sex, Pclass, Age, $k = 5$ Sex, Pclass, Age, $k = 9$ Sex, Pclass, Age, $k = 13$ Sex, Pclass, Age, $k = 17$ Sex, Pclass, Age, $k = 21$ Sex, Pclass, Age, $k = 25$ k-Nearest Neighbors, binomial for missing test obs Sex, Age, Pclass_ordered,	0.8642 0.81818 0.80808 0.80359 0.79798 0.78788 0.77890	0.73206 0.73206 0.74641 0.74163 0.75120 0.77033 0.76555

Model	Training accuracy	Testing Accuracy
Sex, Age, Pclass_unordere Sex:Pclass_unor		0.68421
k-Nearest Neighbors, 0s for missing test obs Sex, Age,	0.8096244	0.74641
Pclass_ordered, Sex:Pclass_order	red	
Sex, Age, Pclass_unordere Sex:Pclass_unor		0.74163
k-Nearest Neighbors, scrambled 0 / 1s for missing test obs		
Sex, Age, Pclass_ordered, Sex:Pclass_order	0.8096244 red	0.69378
Sex, Age, Pclass_unordere Sex:Pclass_unor		0.68421
random forest mtry picked with CV, Pclass, Sex,	.8123648	0.77033
Age, Fare, Embarked SVM SVM, kitchen sink, imputed testing with missing	0.8272926	0.7846