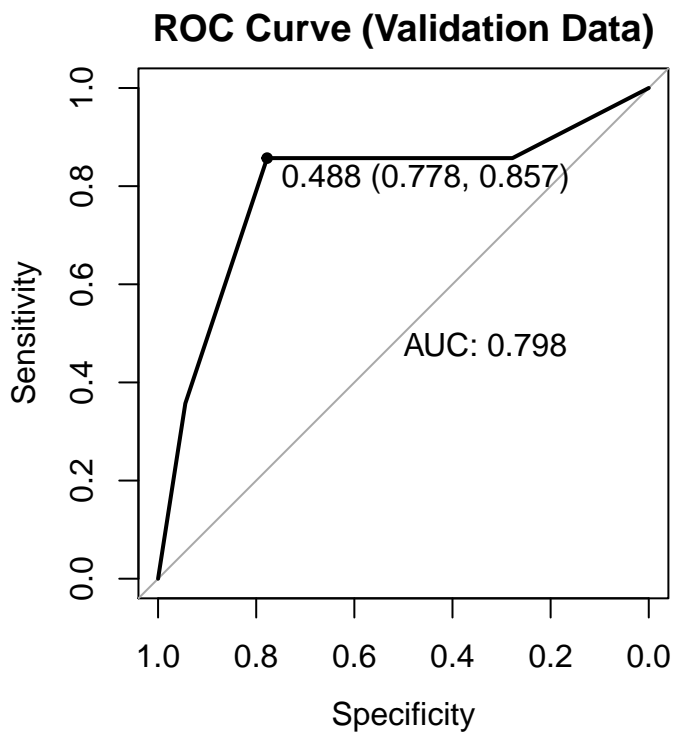
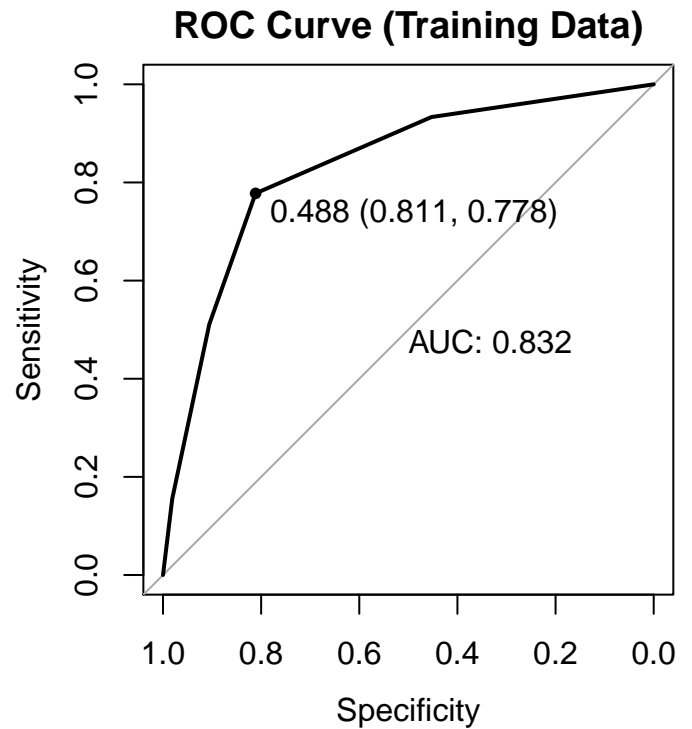
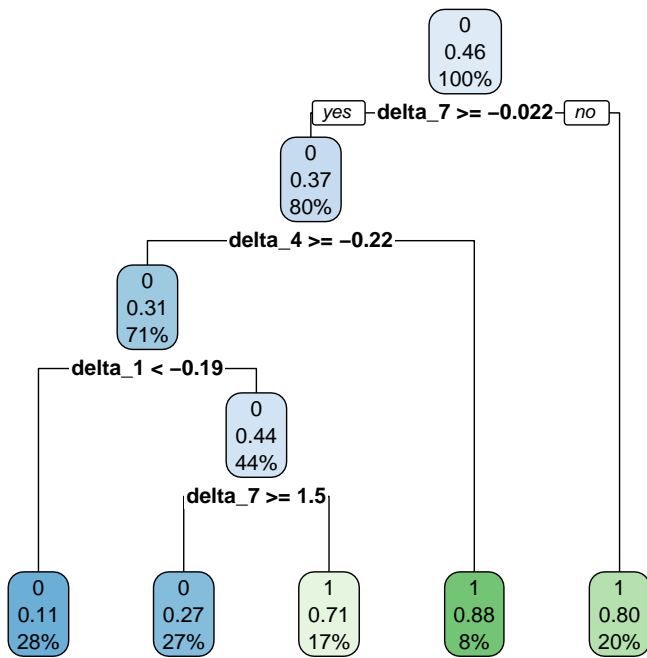


SMART Weight Loss: Analytics for July 2020 Submission

December 16, 2020

1 ROC Curves for Classification Tree



2 How many individuals did we consider and what percentage had missing data?

Table 1: First Column: Total number of individuals in APP ONLY arm (excluding one individual with data issue); Remaining Columns: Percent with no weights

Total No. Individuals	No weight on Day 1	No weight on Day 4	No weight on Day 7	No weight on Day 1, 4, or 7
172	4.07	11.628	15.116	24.419

3 Can we identify App non-responders during the first week of treatment?

Table 2: CART Only

	Sensitivity	Specificity
Training	0.778	0.811
Validation	0.857	0.778

Table 3: Overall Decision Rule

	Sensitivity	Specificity
Training	0.848	0.632
Validation	0.889	0.700

4 Is non-response status at week 8 predictive of weight loss at month 3?

Table 4: Estimates of Parameters in a Logistic Regression Model

	Estimate	Std. Error	z value	Pr(> z)
beta0	0.045	0.213	0.213	0.831
beta1	-2.610	0.474	-5.504	0.000