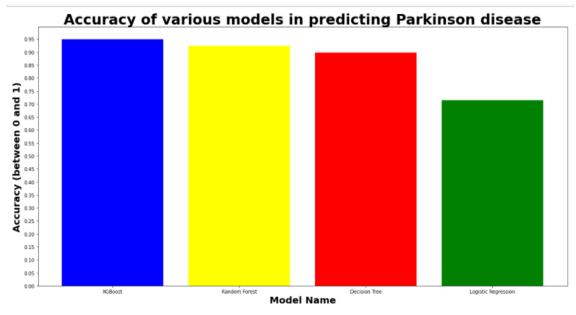
PARKINSON'S DISEASE PROJECT

	name	MDVP:Fo(Hz)	MDVP:Fhi(Hz)	MDVP:Flo(Hz)	MDVP:Jitter(%)	MDVP:Jitter(Abs)	MDVP:RAP	MDVP:PPQ	Jitter:DDP	MDVP: Shimmer	 Shi
0	phon_R01_S01_1	119.992	157.302	74.997	0.00784	0.00007	0.00370	0.00554	0.01109	0.04374	
1	phon_R01_S01_2	122.400	148.650	113.819	0.00968	0.00008	0.00465	0.00696	0.01394	0.06134	
2	phon_R01_S01_3	116.682	131.111	111.555	0.01050	0.00009	0.00544	0.00781	0.01633	0.05233	
3	phon_R01_S01_4	116.676	137.871	111.366	0.00997	0.00009	0.00502	0.00698	0.01505	0.05492	
4	phon_R01_S01_5	116.014	141.781	110.655	0.01284	0.00011	0.00655	0.00908	0.01966	0.06425	
190	phon_R01_S50_2	174.188	230.978	94.261	0.00459	0.00003	0.00263	0.00259	0.00790	0.04087	
191	phon_R01_S50_3	209.516	253.017	89.488	0.00564	0.00003	0.00331	0.00292	0.00994	0.02751	
192	phon_R01_S50_4	174.688	240.005	74.287	0.01360	0.00008	0.00624	0.00564	0.01873	0.02308	
193	phon_R01_S50_5	198.764	396.961	74.904	0.00740	0.00004	0.00370	0.00390	0.01109	0.02296	
194	phon_R01_S50_6	214.289	260.277	77.973	0.00567	0.00003	0.00295	0.00317	0.00885	0.01884	

The dataset

I first got the features and labels and set the status column to be the target label. I then transformed the data values so that every data value is between -1 and 1 without loss of ordering. I then instantiated, trained, and tested various models. 80% of the dataset was used for training a model and the remaining 20% of the dataset was used for testing the particular model. I finished off by comparing the accuracy of all of the models.



The most accurate model in predicting whether a person has Parkinson's disease or not was the XGBoost Model at 94.87%. The second most accurate model in predicting whether a person has Parkinson's disease or not was the Random Forest Model at 92.31%. The third most accurate model in predicting whether a person has Parkinson's disease or not was the Decision Tree Model at 89.74%. The least accurate model in predicting whether a person has Parkinson's disease or not was the Logistic Regression at 71.44%