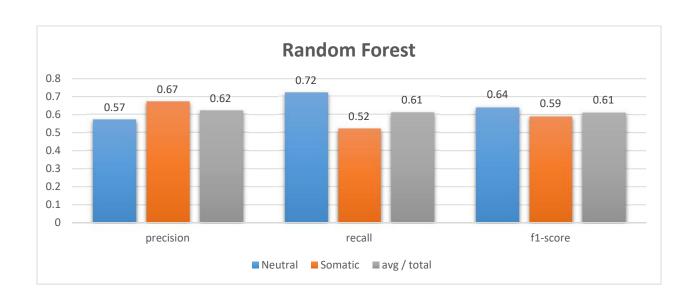
Inference from our project

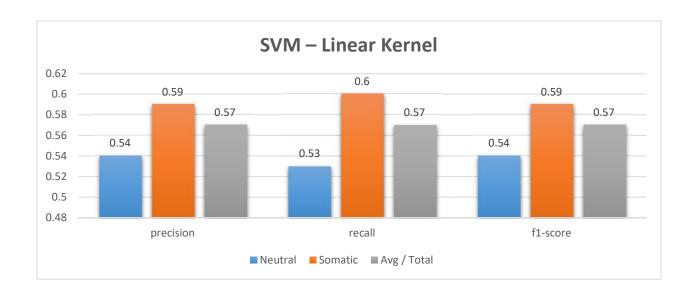
Logistic Regression

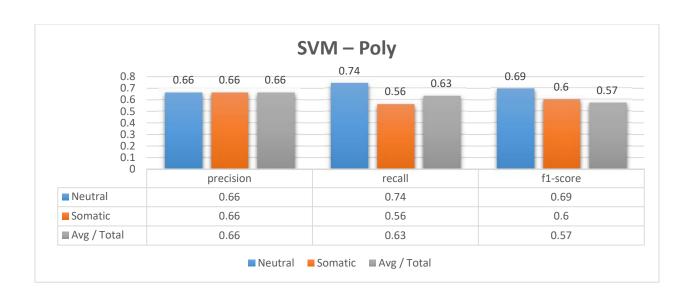


Random Forest

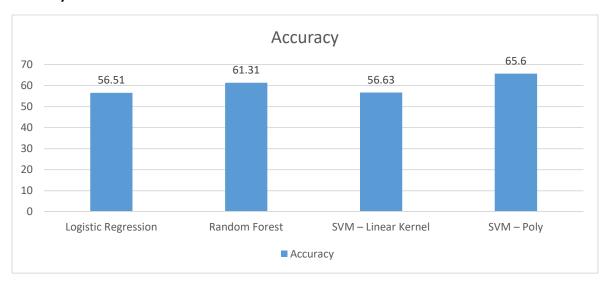


SVM –Linear Kernel

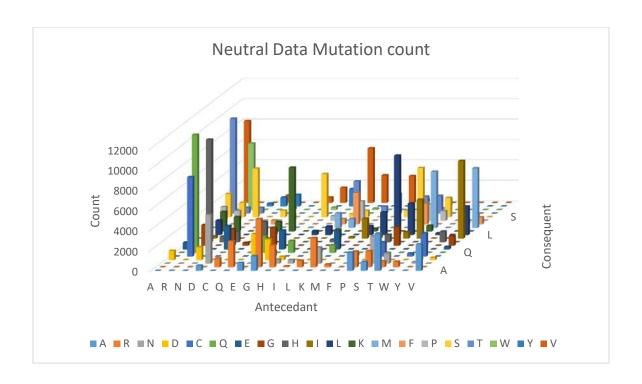




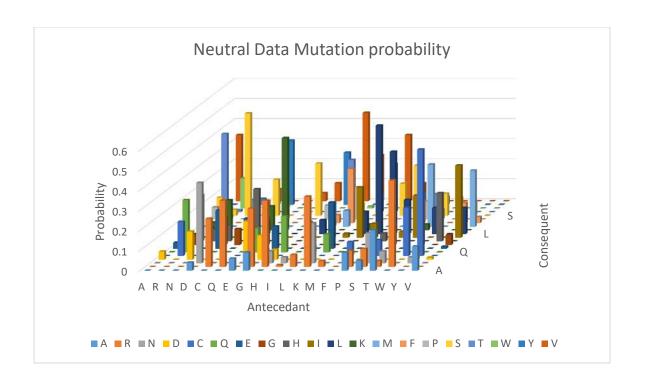
Accuracy



Neutral Data

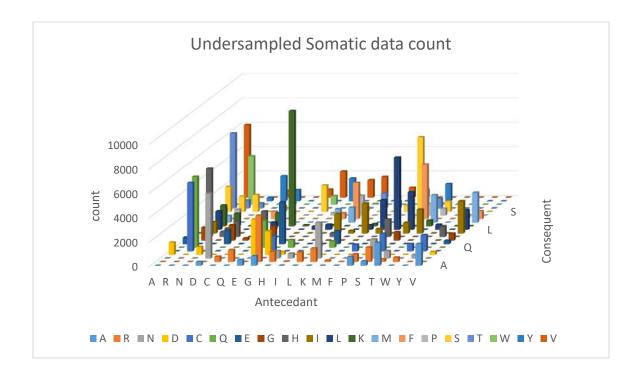


- The most frequently occurring mutation is R to Q and they occur 11601 times in the neutral dataset.
- The least occurring mutations are T to Q, S to D, P to D, D to S and Y to R and they occur only once in the neutral dataset

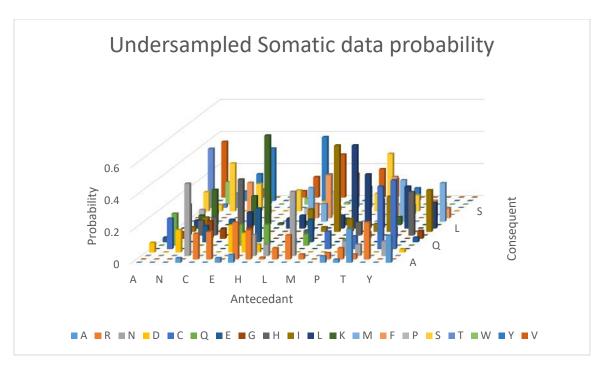


- The mutation F to L has the highest probability of occurrence 0.54.
- The mutations V to D , V to E , S to W, R to T, G to W, I to R, L to W, S to W have the lowest probability of occurrence of 0.01

Under Sampled data



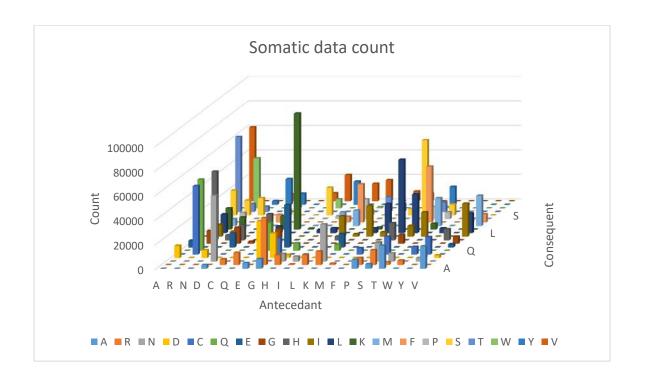
- The mutation E to K was the most frequently occurring mutation with an occurrence count of 9446
- There were numerous mutations with an occurrence count of one which indicated that there were lots of sparsely occurring mutations in the dataset



Inference

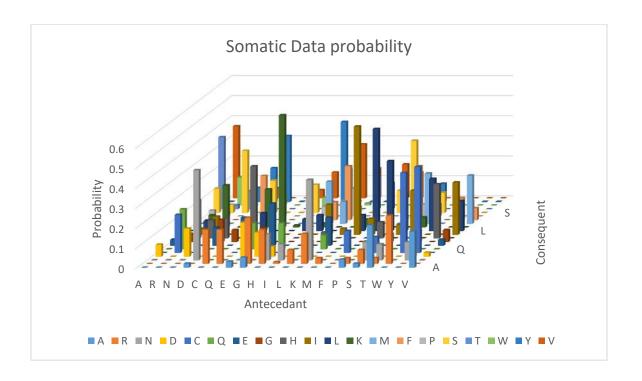
- The mutation E to K has the maximum probability of occurrence with a probability of occurrence of 0.56
- There were numerous mutations with the lowest probability of 0.01

Complete data



Inference

- The mutation E to K has the maximum count of occurrence with a count of 94674 times
- There were numerous mutations with an occurrence count of one which indicated that there
 were lots of sparsely occurring mutations in the dataset



- The mutation E to K has the maximum probability of occurrence with a probability of occurrence of 0.56
- There were numerous mutations with the lowest probability of 0.01.