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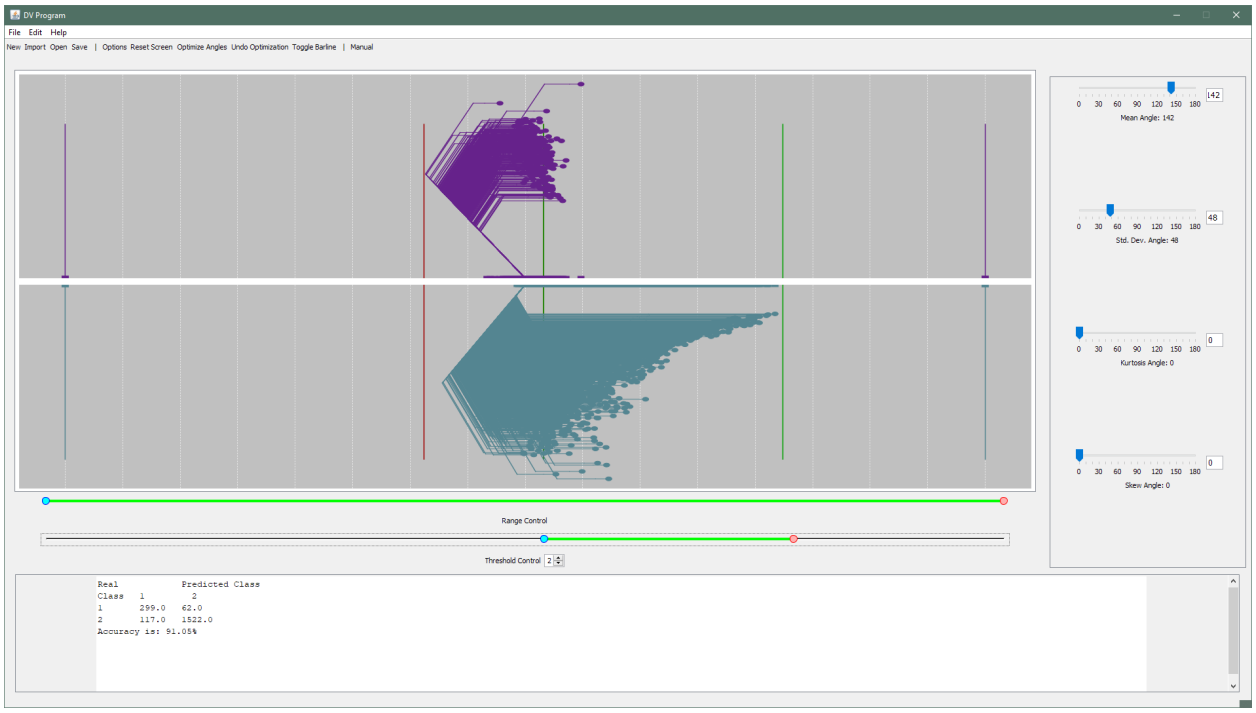
Pulsar Candidates in the High Time Resolution Universe Survey

This data set is made up of 2000 (originally 17,898) entities from 2 different classes (pulsars in green and not pulsars in red), each of which has 8 dimensions. For this analysis, only a sample of the data was considered along with a further reduction in the dimensions. The discarded data was left out for the purposes of more efficient visualization. **It is important to note that the labels of the dimensions are not referencing the data itself, but rather the integrated profile of each potential pulsar.**



Because the skew angle had the greatest effect on the clustering of the vectors and the overlap of the class clusters, this visual analysis suggests that the skew angle has the greatest physical effect as well.

Visualizing the same data in VisCanvas also shows a strong correlation between skew and class. Between these two visual analyses, we can be more confident in concluding that pulsar candidacy heavily relies on the skew angle.