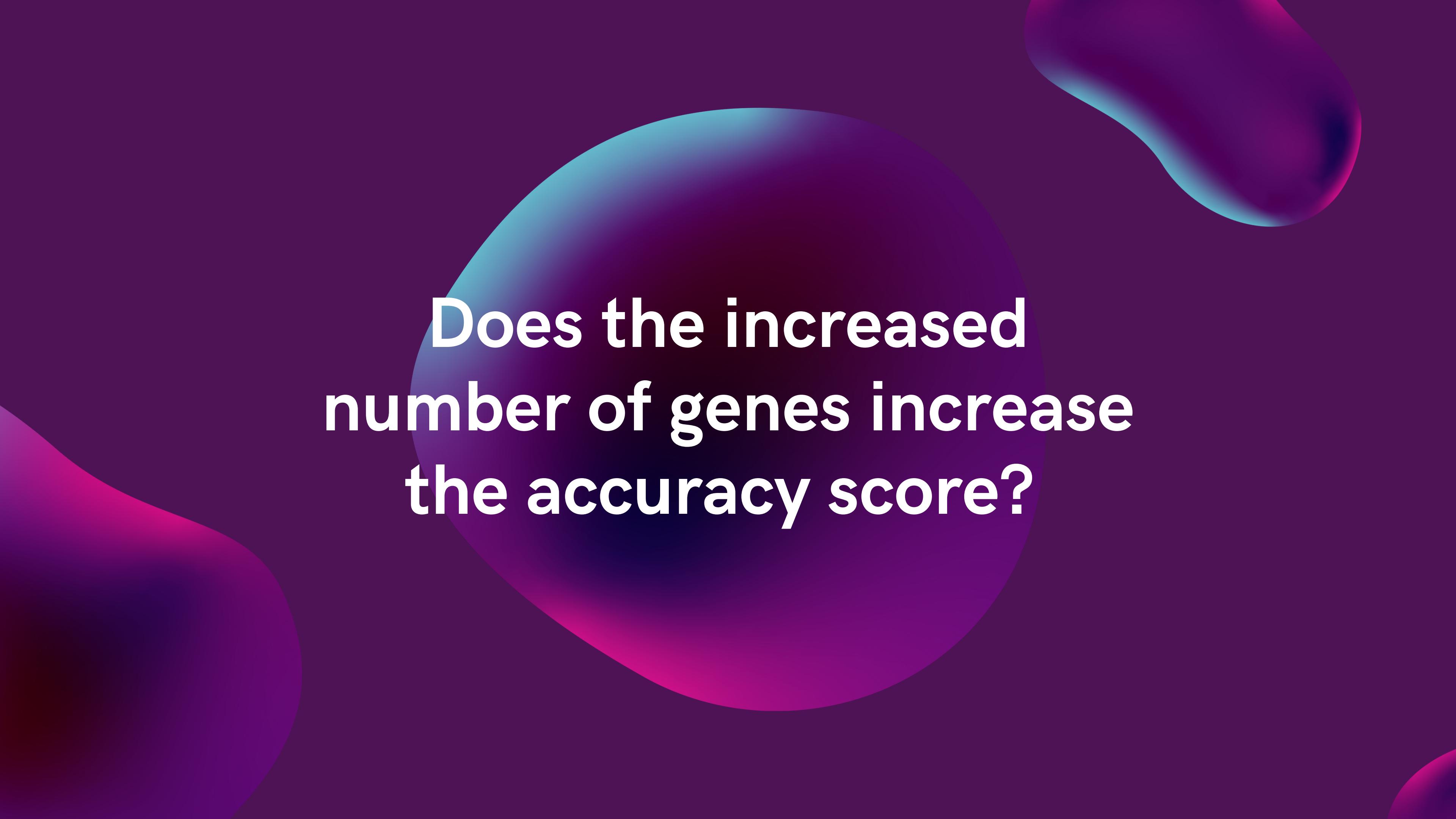


Gene Expression Data Analysis

Cailin Feldman



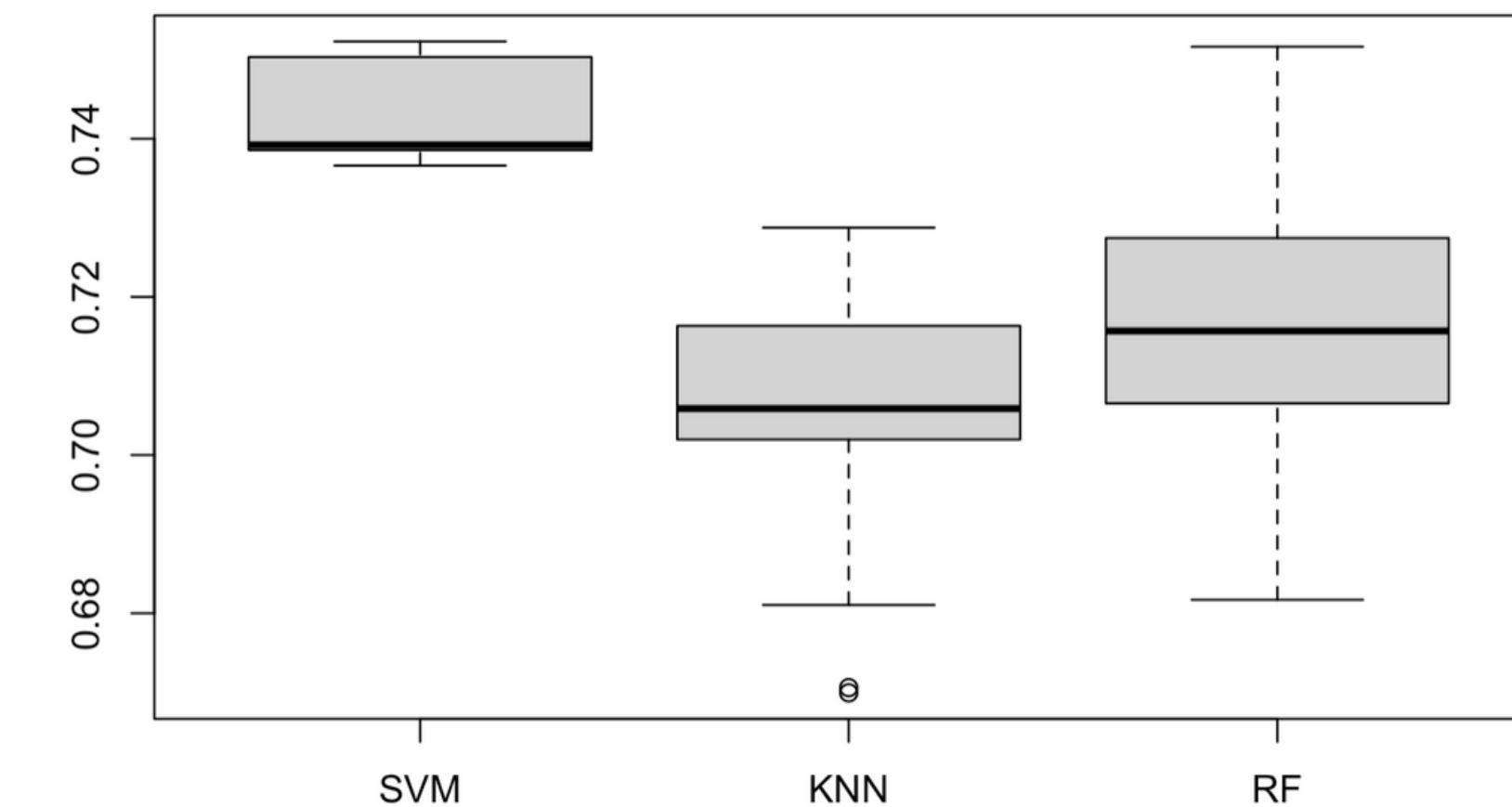
Does the increased
number of genes increase
the accuracy score?

Support Vector Machine

Works well
with noise

It was used by Yang and Yahav to analyze the transplantation survival.

Highest Accuracy Average Compared to Other Models



Potential Issues

In the future there will be a way to automate responses based on pre-written keywords and through machine learning.

Presentations are communication tools that can be used as demonstrations, lectures, speeches, reports, and more. It is mostly presented before an audience.

Shiny App

Gene Expression

Number of Genes:

71

1,000

11 111 211 311 411 511 611 711 811 9111,000

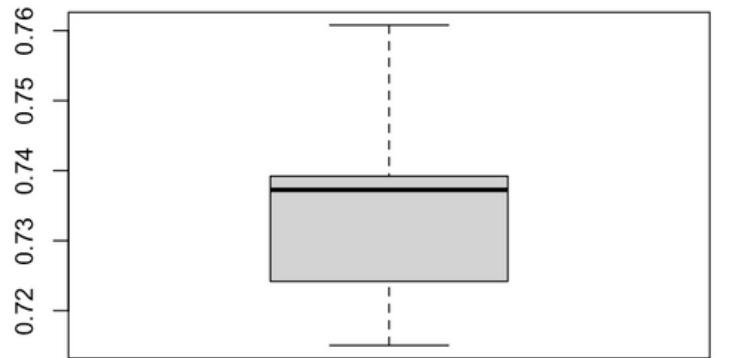
Go!

Accuracy Summary

Min. 1st Qu. Median. Mean. 3rd Qu. Max.

0.703268 0.7163399 0.727451 0.7261176 0.7372549 0.7509804

Box Plot



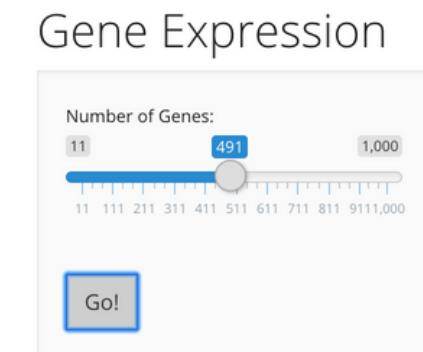
Genes Used In The Model

A1BG AAAS AAC5 AADAT AAED1 AAGAB AAK1 AAMP AAR2 AARS AARS2 AARSD1
AASDH AASDHPPPT AATF AATK ABAT ABCA1 ABCA12 ABCA13 ABCA2 ABCA3 ABCA4
ABCA5 ABCA6 ABCA7 ABCA9 ABCB1 ABCB10 ABCB5 ABCB6 ABCB7 ABCB8 ABCC1
ABCC10 ABCC11 ABCC13 ABCC2 ABCC3 ABCC4 ABCC5 ABCC6 ABCC8 ABCC9
ABCD1 ABCD2 ABCD3 ABCD4 ABCE1 ABCF1 ABCF2 ABCF3 ABCG1 ABCG2 ABHD10
ABHD11 ABHD12 ABHD13 ABHD14A ABHD14A-ACY1 ABHD14B ABHD15 ABHD16A
ABHD16B ABHD2 ABHD3 ABHD4 ABHD5 ABHD6 ABHD8 ABI1 ABI2

Findings

Number of genes does
not improve accuracy
score

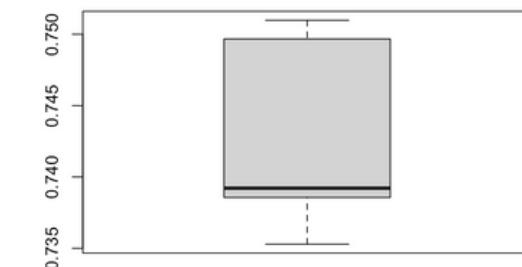
It was used by Yang and Yahav to analyze the transplantation survival.



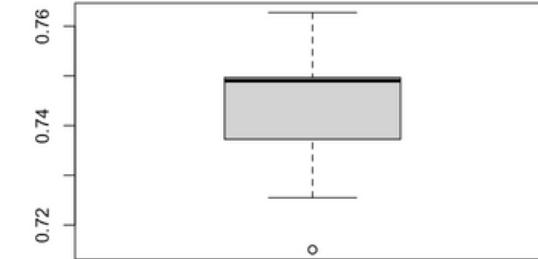
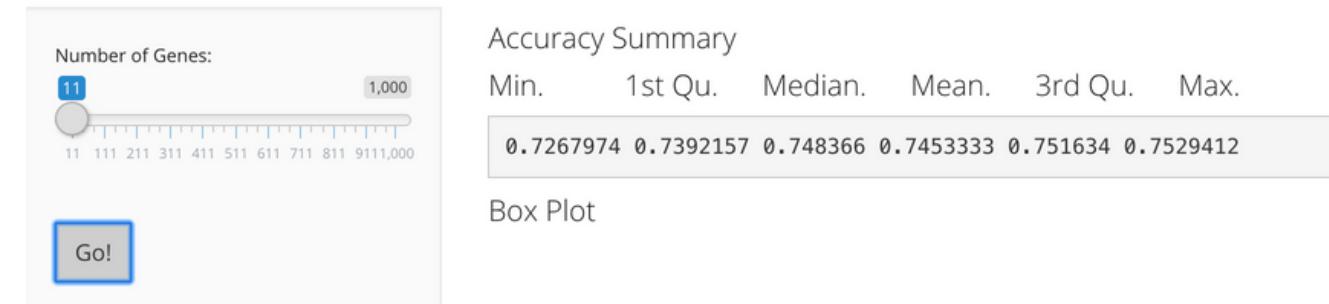
Accuracy Summary

Min.	1st Qu.	Median.	Mean.	3rd Qu.	Max.
0.7372549	0.7392157	0.7398693	0.7431111	0.7490196	0.7522876

Box Plot



Gene Expression



Gene Expression

