

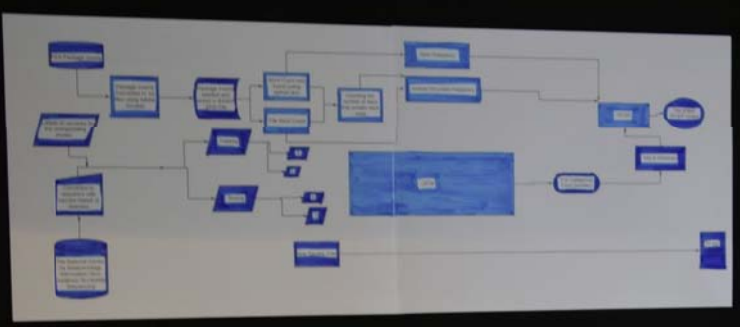


# What's your science fair project?

## Using Machine Learning to Determine the Composition of New Vaccines for Novel Viruses

### BACKGROUND

The importance of developing the novel of new vaccines, which is a major goal of the world's health community, is the right treatment that will stop, or change the course of, the disease and prevent its spread. The distribution of the virus and the effectiveness of the vaccine, such as the need to address different types of mutations, is a major challenge. Therefore, the genetic code can help us to design that type of vaccine for most effective.



### CODE

Code snippets and a line graph titled "Loss over Each Epoch" showing training and validation loss over 100 epochs.

### RESULTS

Through the machine learning process, the model was able to predict the composition of the vaccine for novel viruses.

### CONCLUSION

The machine learning model was able to predict the composition of the vaccine for novel viruses, which is a major goal of the world's health community.

### QUESTIONS

For more information, please contact the project lead.

### THESIS



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