

# Making Computers Help Us Understand Data

**Dr Kavina Dayal**

6 August 2018

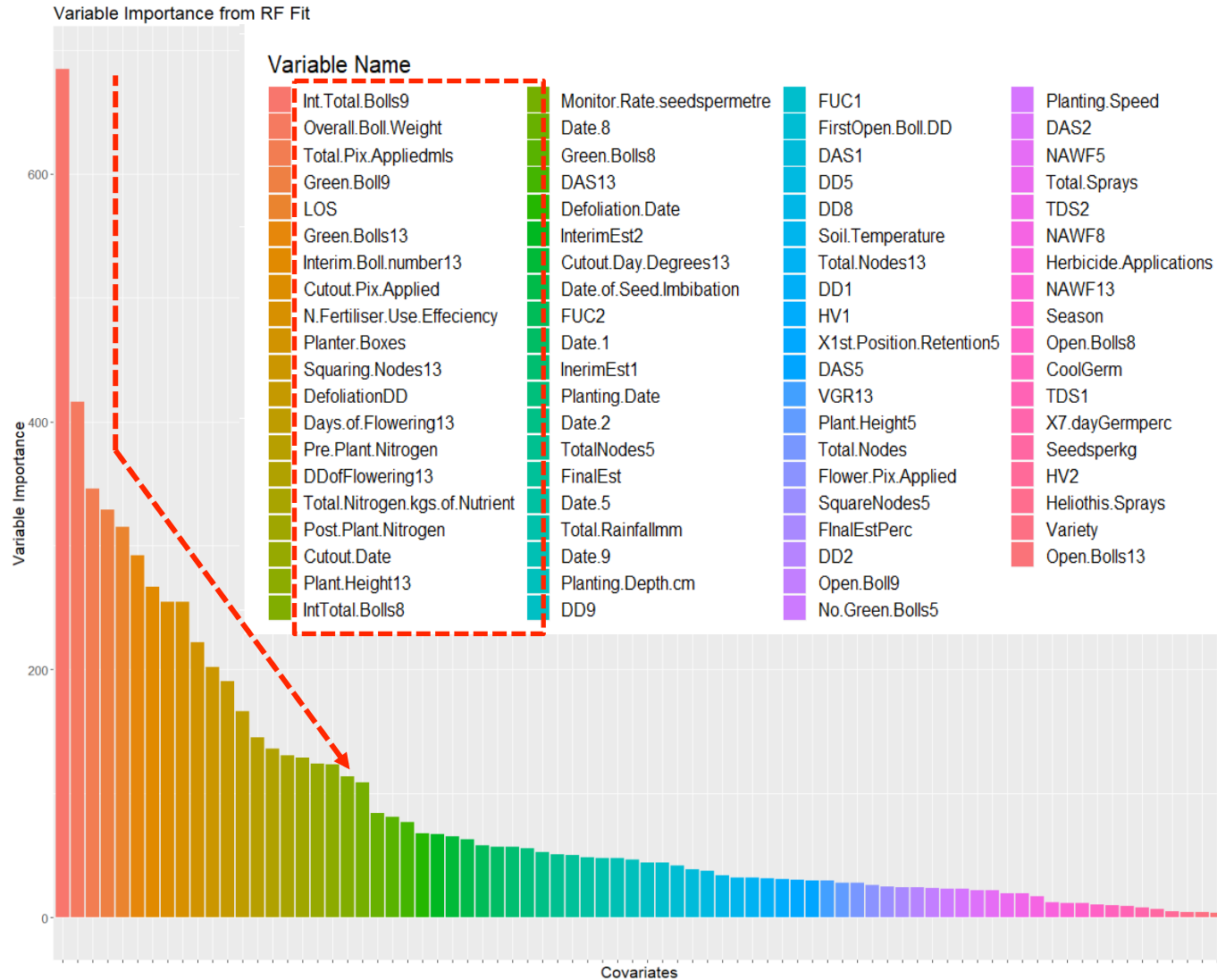
2018 Ambassador Network Conference



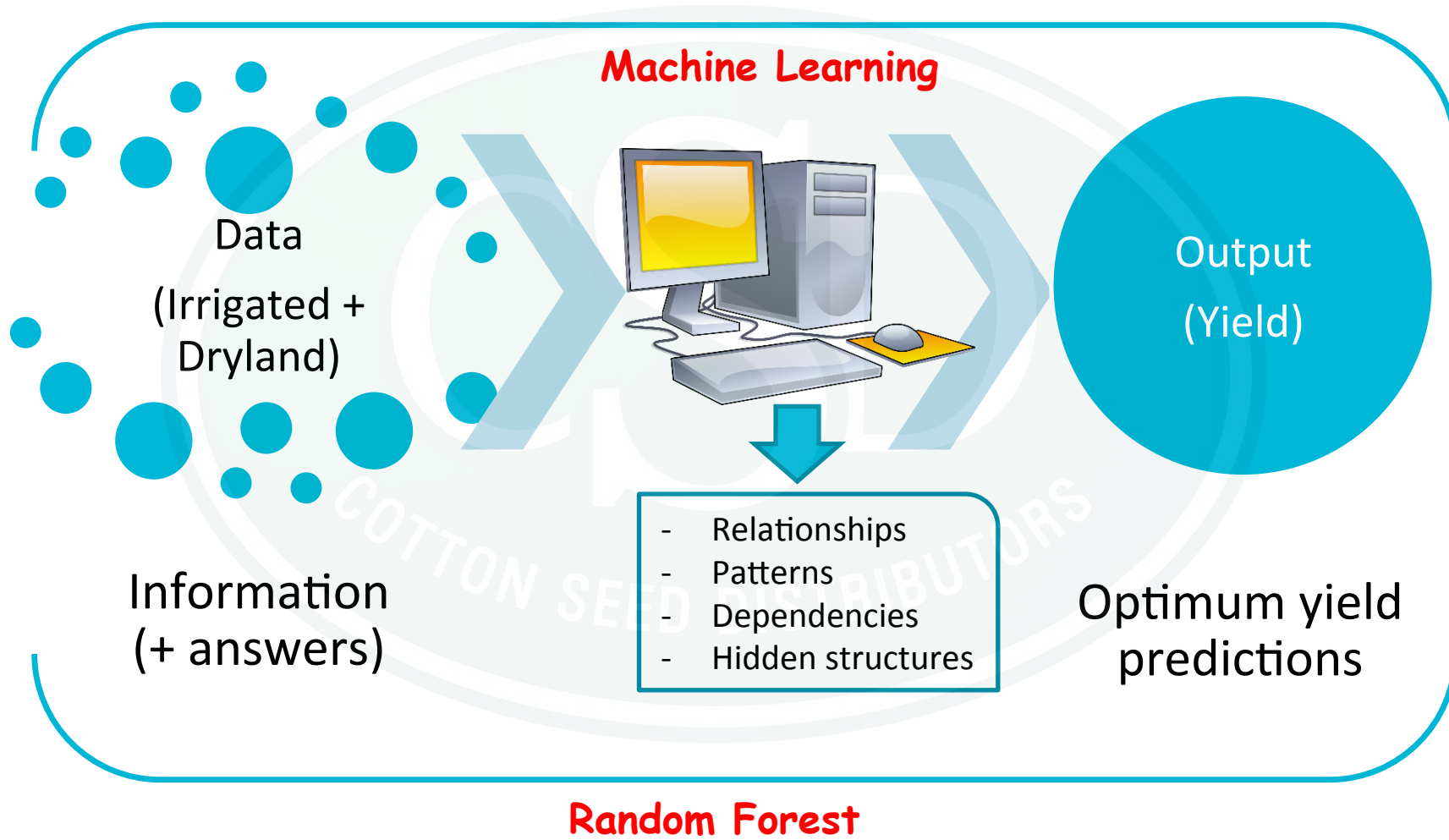




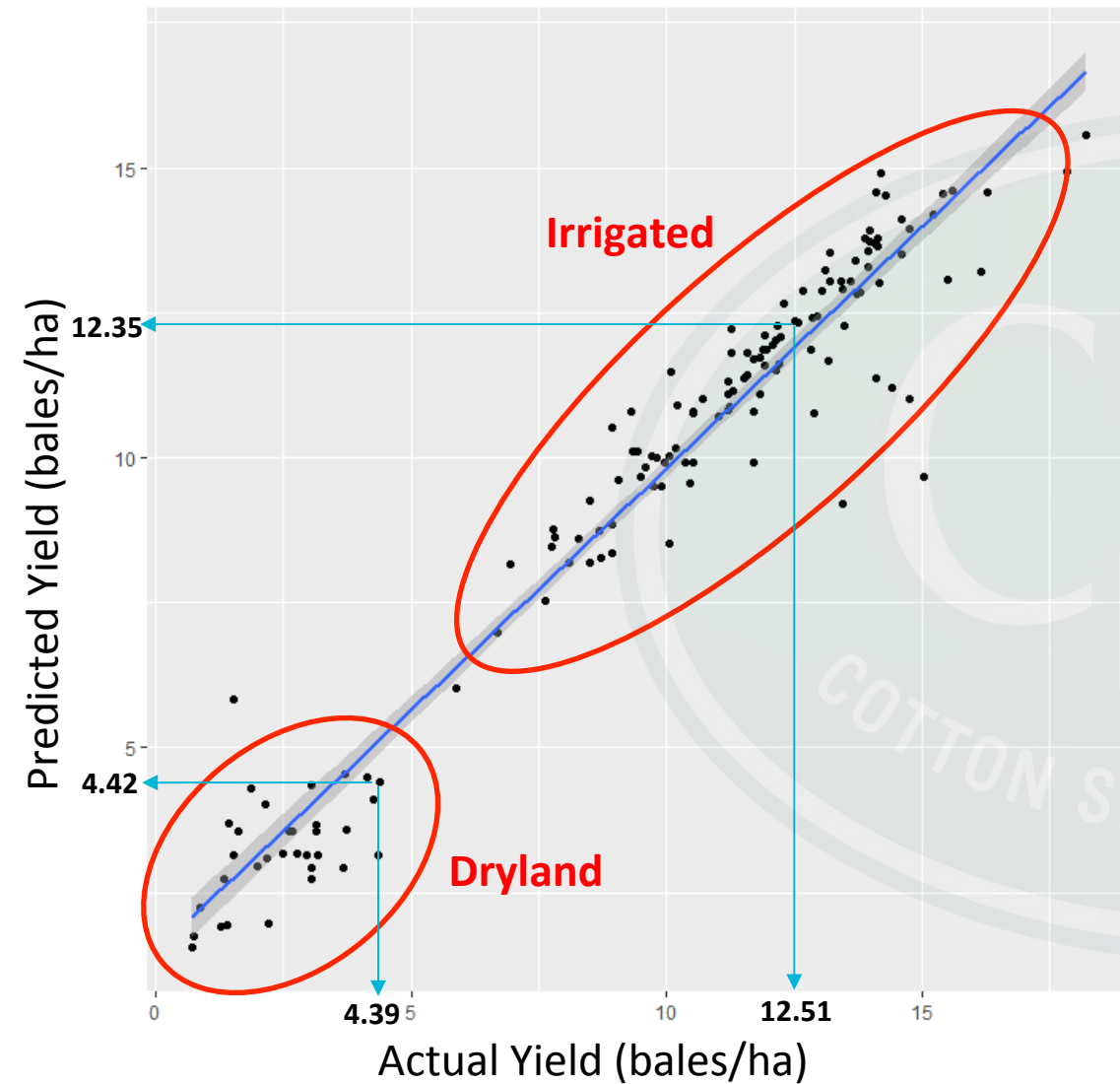
# Variable Order of Importance for Yield Prediction



# How prediction model works?



# How well can computer predict yield?



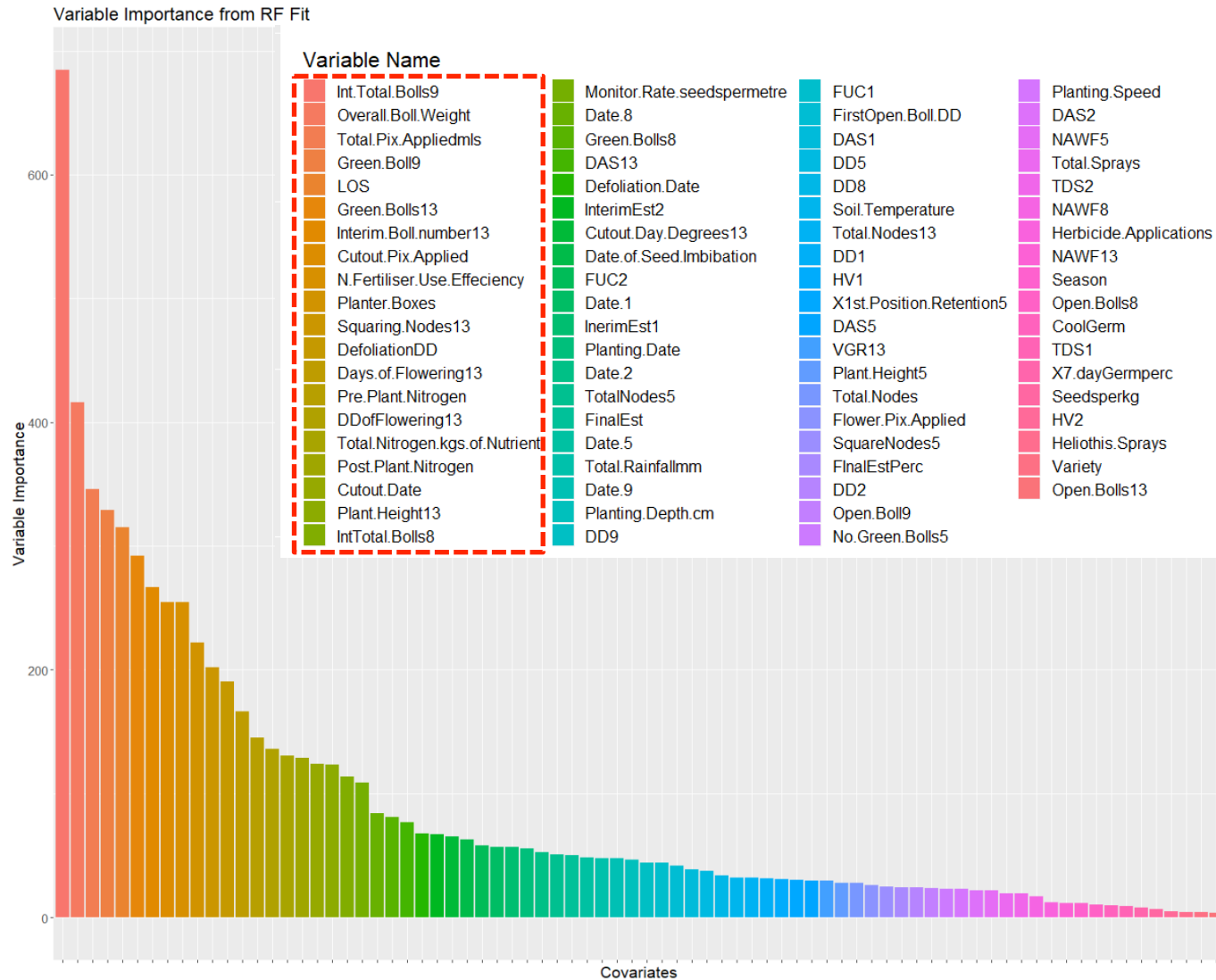
**R-squared = 0.94**  
**This is a great number!**

The closer the R-squared is to the value of 1, the higher the accuracy of the prediction.

Your yield: **4.39** bales/ha,  
Model predicted yield: **4.42** bales/ha.

Your yield: **12.51** bales/ha,  
Model predicted yield: **12.35** bales/ha.

# Variable Order of Importance for Yield Prediction





# What's next?

- More years of data:
  - Will increase model's ability to predict cotton yield with higher accuracy
  - Going into future cotton planting seasons, computer models will give us very good indication of what the final yield is going to be.