



# SNS COLLEGE OF TECHNOLOGY

Coimbatore - 35



23BAT615 – Artificial Intelligence for Managers

Unit III – Unboxing AI & Its Applications



Presented by

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Design Thinker

Redesigning Common Mind & Business Towards Excellence

1<sup>st</sup> Indian  
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to Implement  
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FrameWork

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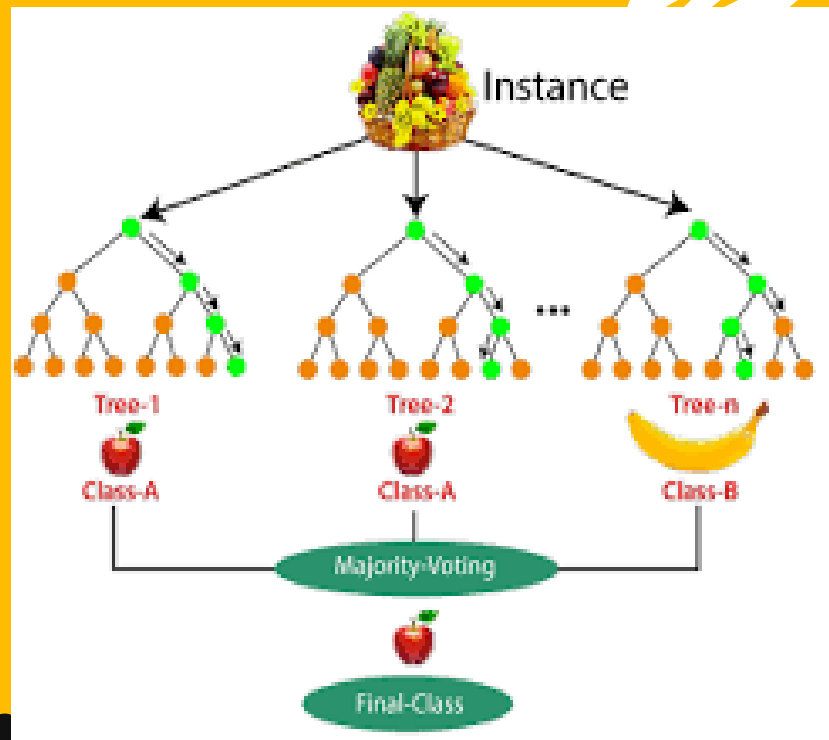
Build an Entrepreneurial Mindset through our Design Thinking FrameWork



# Guess the Topic!!!



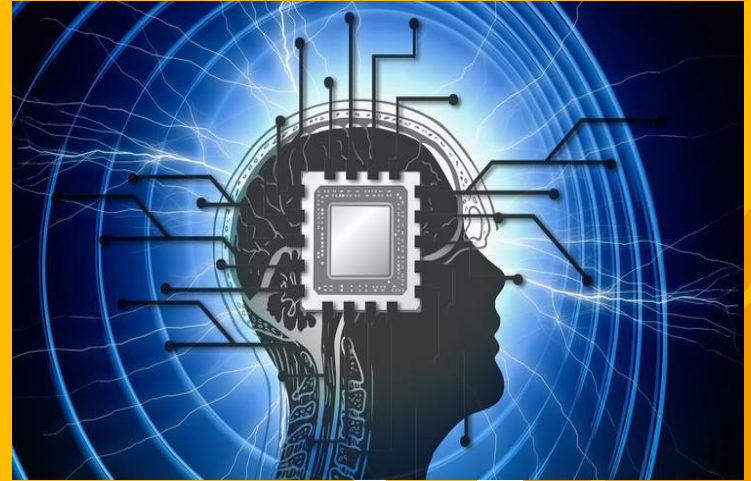
## Random Forest





# Recap

- Reason to study Logistics Regression
- Logistics Regression
- Logistics Regression Model
- Logistics Regression for Sales of a New Product
- Pros and Cons
- Logistics Regression at a glance





# Discussion about....

Reason to study Random Forest

- Random Forest Algorithm
- Random Forest Algorithm steps
- Application of Random Forest
- Random Forest Algorithm Use cases
- Random Forest in Machine Learning



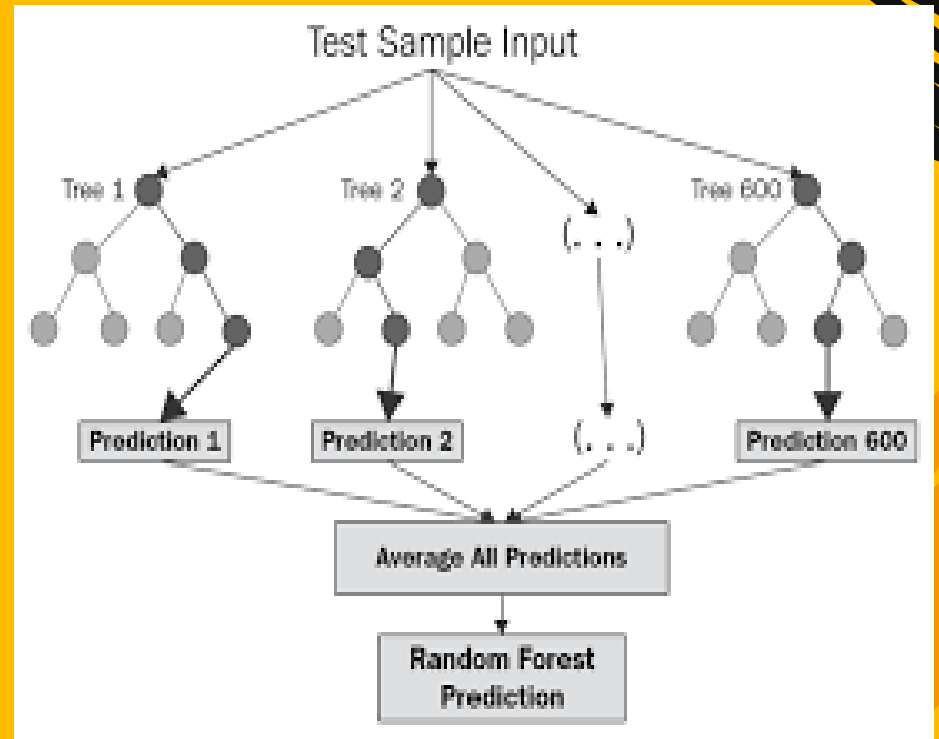
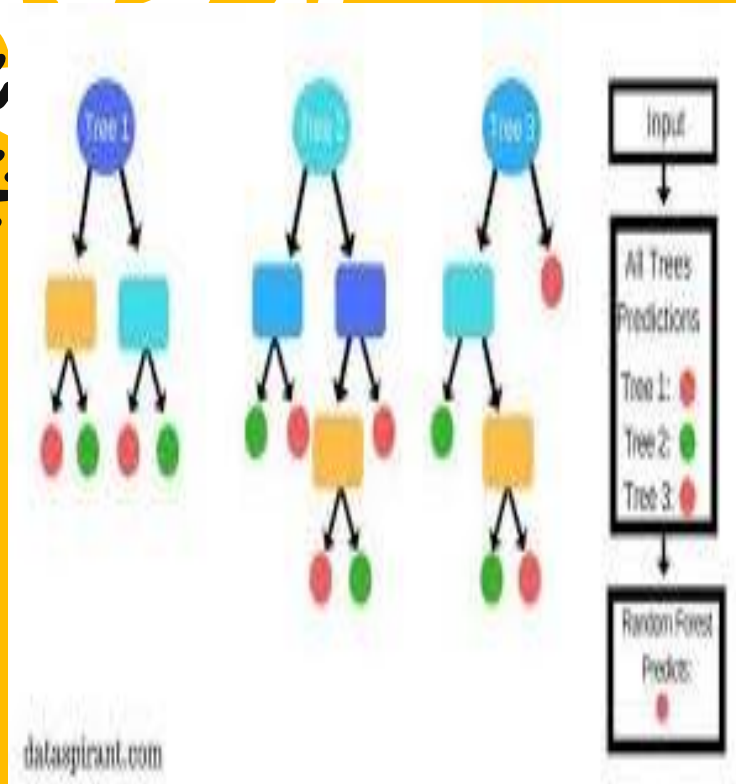


## Reason to study Random Forest



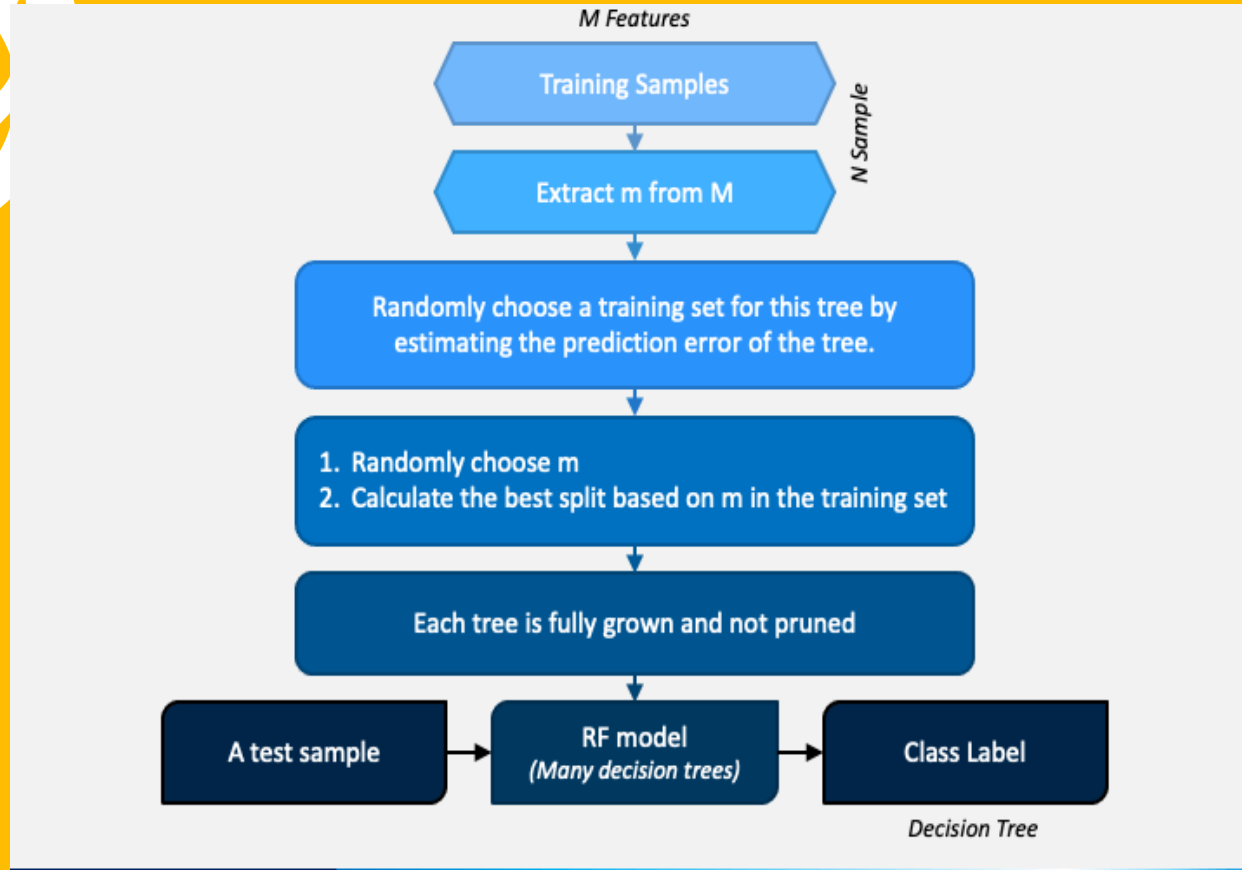


# Random Forest Algorithm





# Random Forest Algorithm Steps





# Random Forest Application





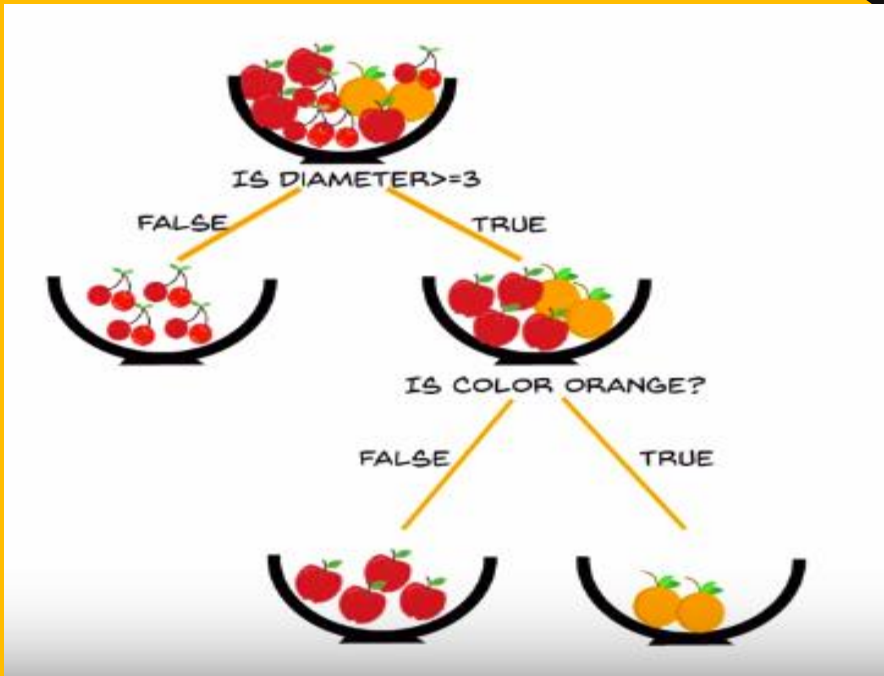
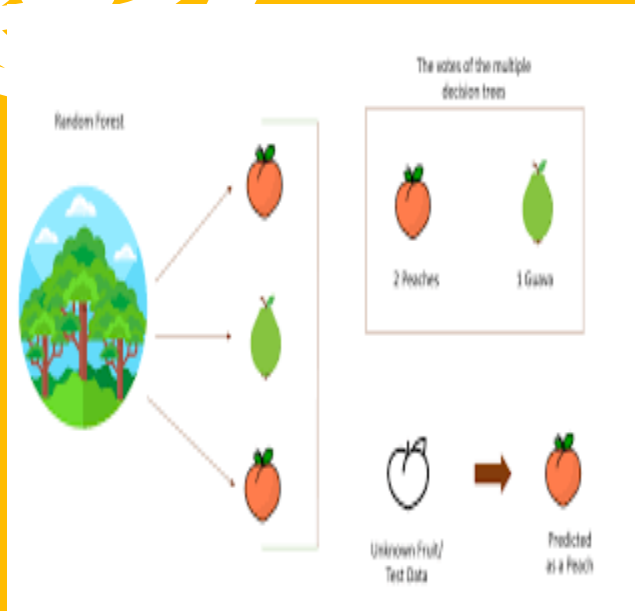


# Random Forest Algorithm Use Case





# Random Forest in Machine Learning





# Knowledge Check

Random Forest algorithm is particularly advantageous in business analytics because it:

- ✗ A) Generates accurate predictions by training a single decision tree on the entire dataset.
- ✗ B) Minimizes overfitting by combining predictions from multiple decision trees trained on different subsets of the data.
- ✗ C) Focuses on identifying outliers in the dataset to improve data quality.
- ✗ D) Requires extensive feature engineering to be effective in handling complex business problems.
- ✗ **Answer: B) Minimizes overfitting by combining predictions from multiple decision trees trained on different subsets of the data.**



# Summary

- Reason to study Random Forest
  - Random Forest Algorithm
  - Random Forest Algorithm steps
  - Application of Random Forest
  - Random Forest Algorithm Use cases
  - Random Forest in Machine Learning



WMA



# References

- <https://corporatefinanceinstitute.com/resources/data-science/random-forest/>
- <https://www.simplilearn.com/tutorials/machine-learning-tutorial/random-forest-algorithm>



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# Thanks!

