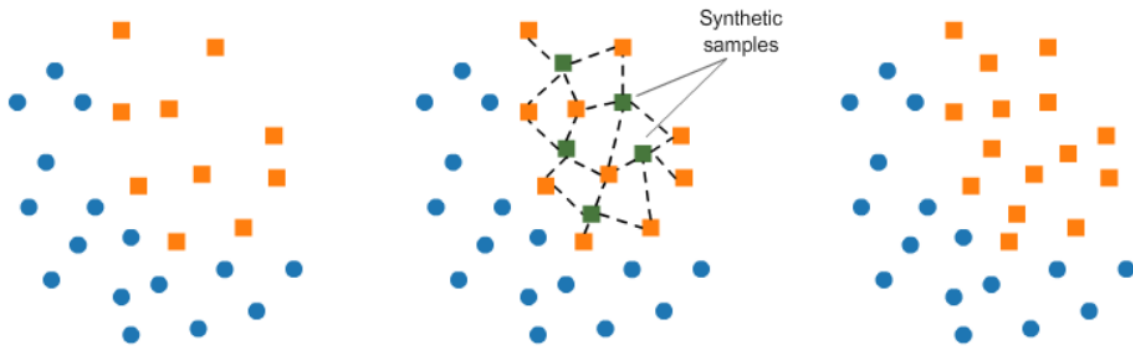
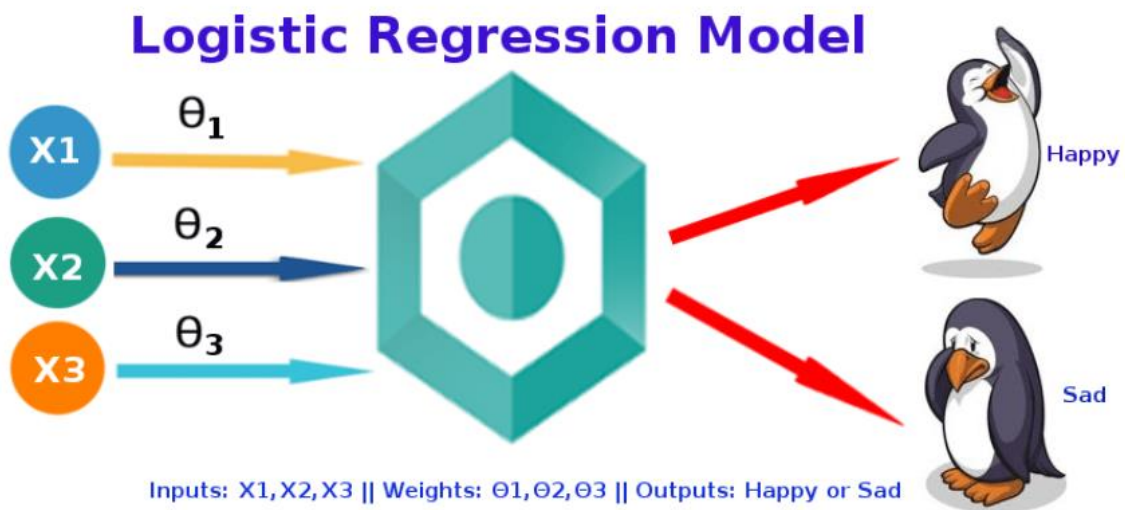


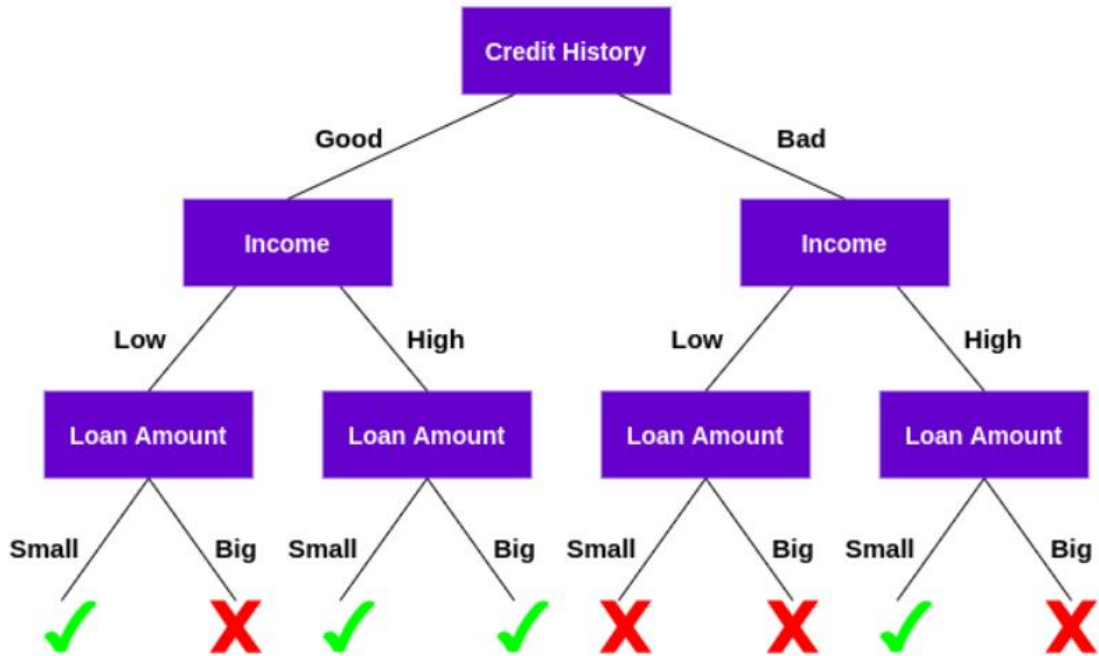
# Correct Imbalance Class SMOTE



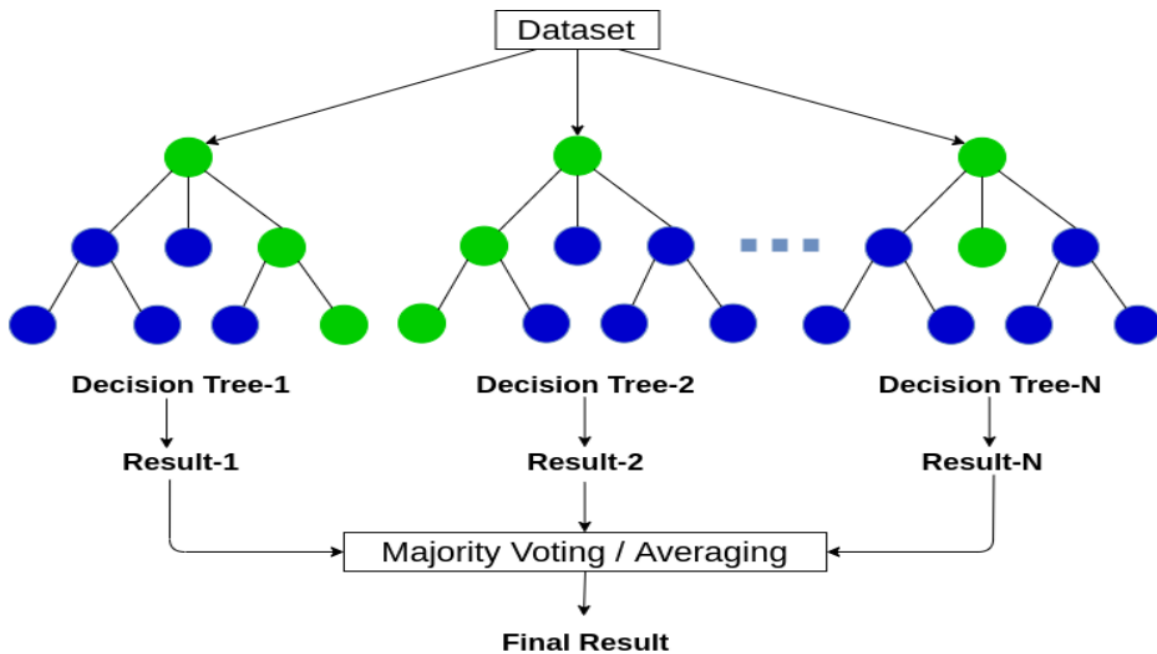
## Models



### Decision Tree for Loan Approval



“ The Random Forest Algorithm combines the output of multiple (randomly created) Decision Trees to generate the final output.



$$\mathbf{Precision} = \frac{True\ Positives}{True\ Positives + False\ Positives}$$

$$\mathbf{Recall} = \frac{True\ Positives}{True\ Positives + False\ Negatives}$$

## F1 — Score

F1 — Score is the *harmonic mean* of precision and recall taking both metrics into account :

$$F_1 = 2 * \frac{precision * recall}{precision + recall}$$