Introduction to Decision Tree

What have we covered till now?

- kNN
- Linear Regression
- Logistic Regression
- Ridge
- Lasso

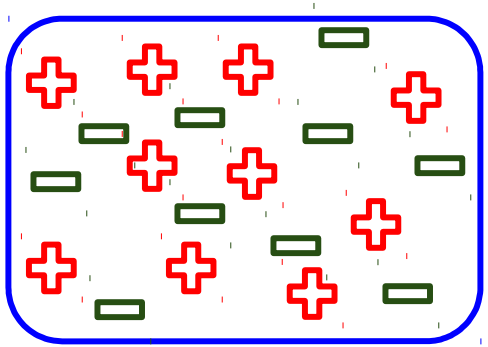
Decision Tree

What we will be covering in this module?

- What is Decision Tree?
- Terminologies related to Decision Trees
- Different splitting criterion in Decision Trees
- Pros / Cons of Decision Trees
- Implementation of Decision Tree in Python

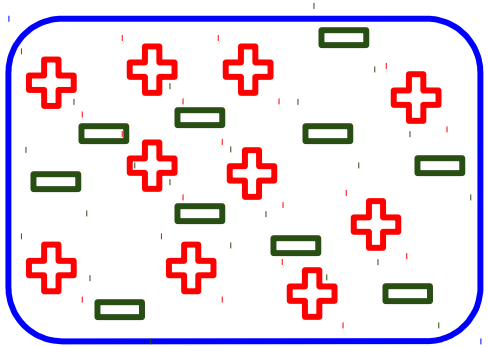
What is Decision Tree?

What is Decision Tree?



Total number of students
= 20

What is Decision Tree?

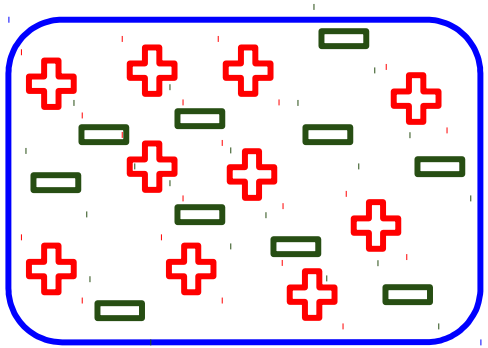


Total number of students = 20

Play cricket = 10

What is Decision Tree?

- Height
- Performance in
  Class
- Class



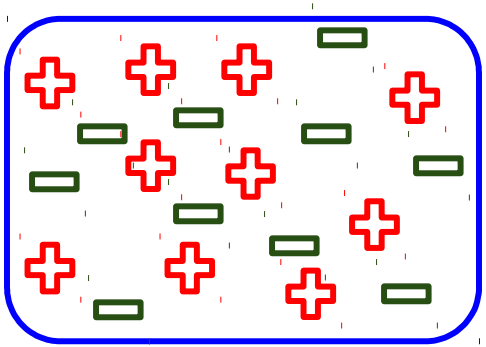
Total number of students = 20

Play cricket = 10

Do not play cricket = 10

What is Decision Tree?

- Height
- Performance in Class
- Class



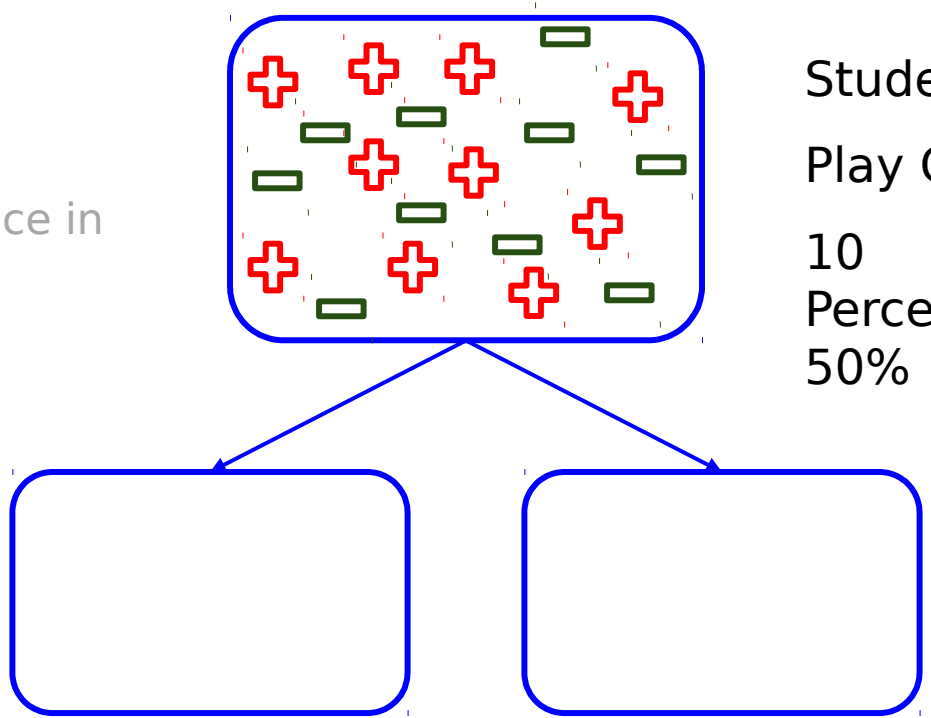
Students = 20

Play Cricket = 10

Percentage = 50%

What is Decision Tree?

- Split on Height
- Split on Performance in Class
- Split on Class



Students = 20

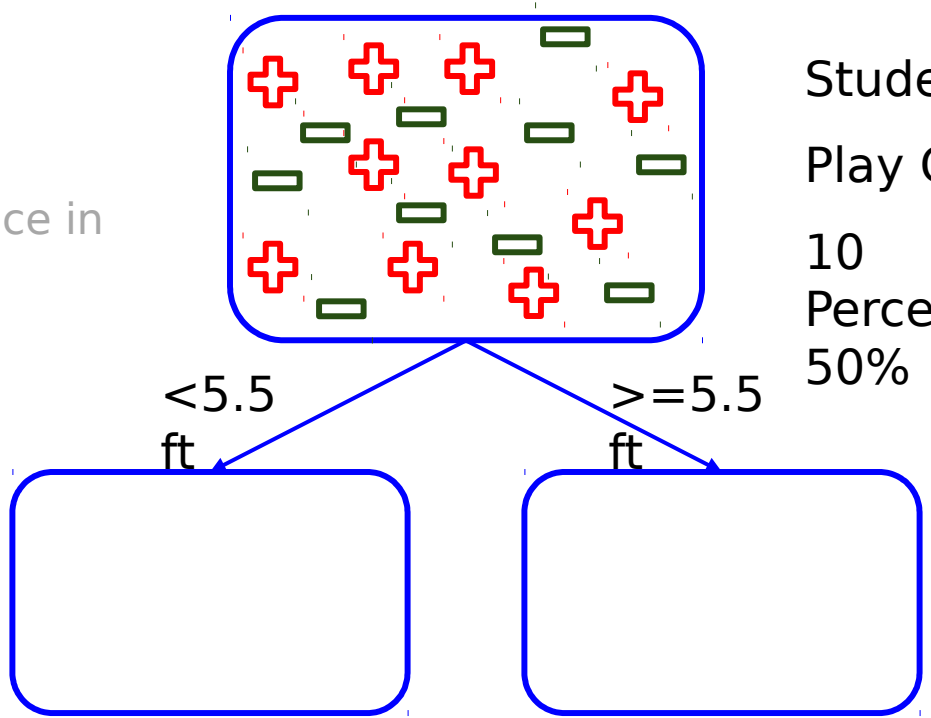
Play Cricket = 10

Percentage = 50%

Analytics Vidhya
Learn everything about analytics

What is Decision Tree?

- Split on Height
- Split on Performance in Class
- Split on Class



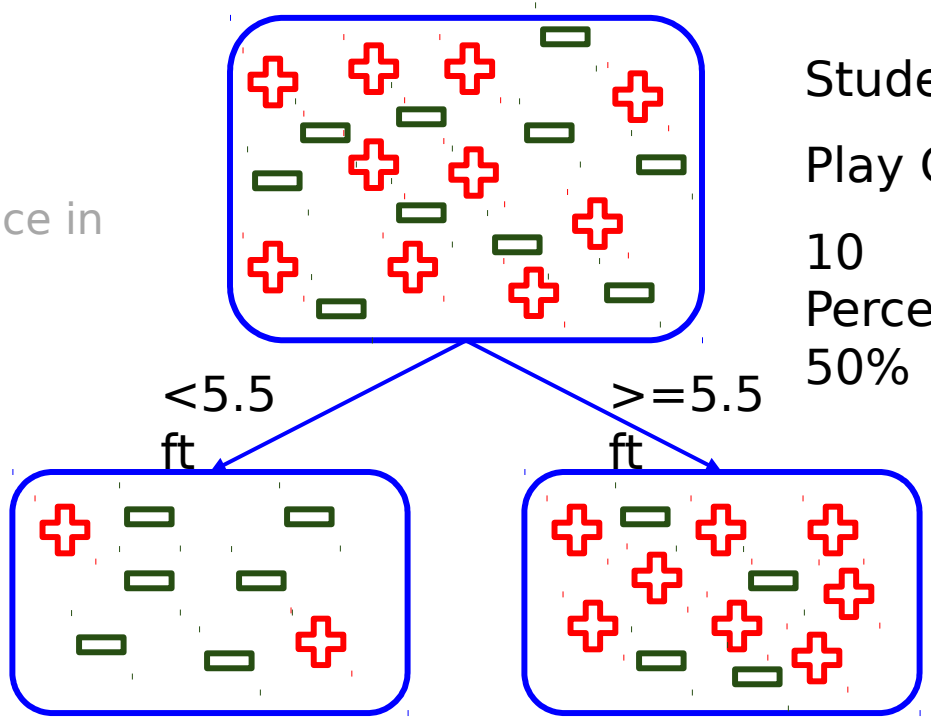
Students = 20

Play Cricket = 10

Percentage = 50%

What is Decision Tree?

- Split on Height
- Split on Performance in Class
- Split on Class



Students = 20

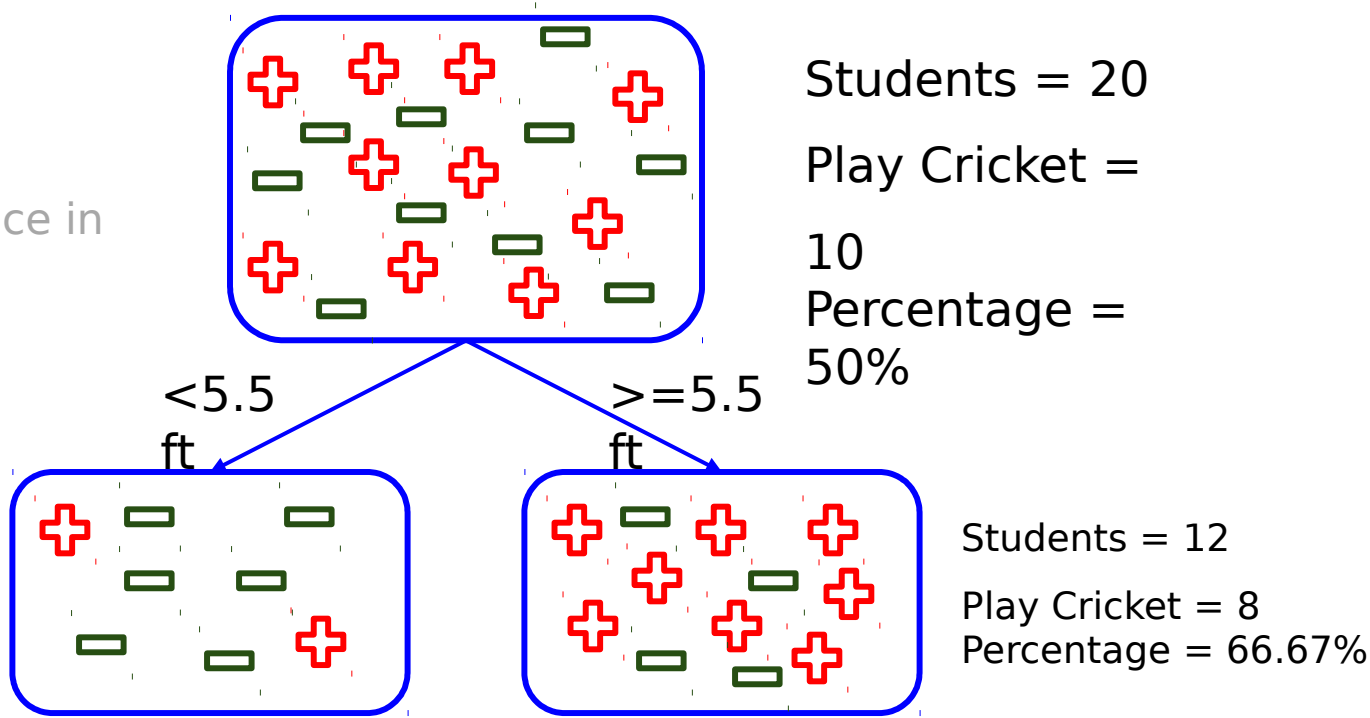
Play Cricket = 10

Percentage = 50%

Analytics Vidhya
Learn everything about analytics

What is Decision Tree?

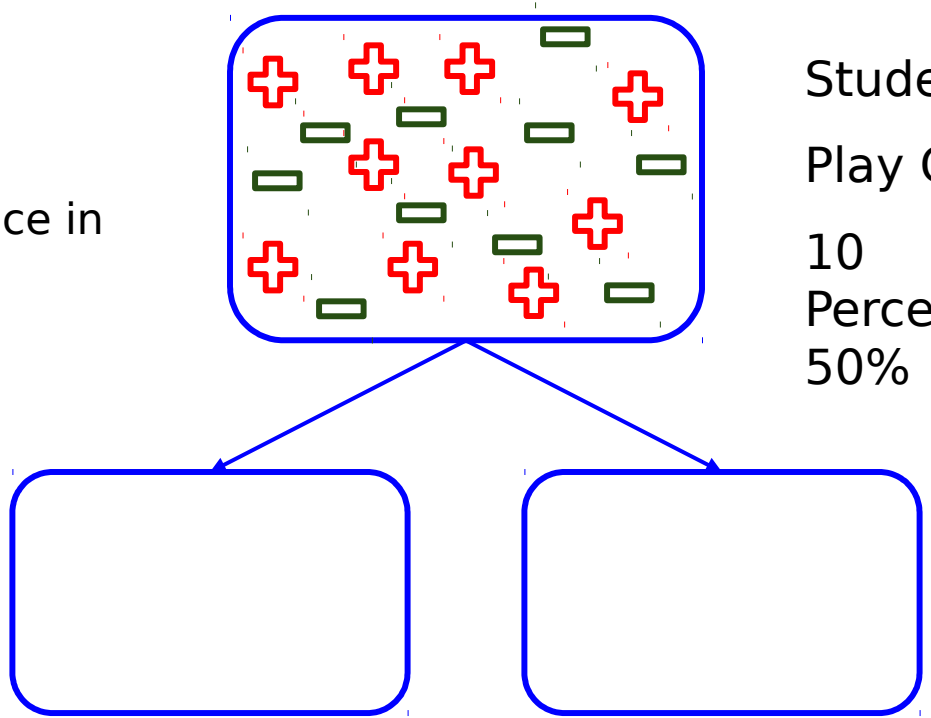
- Split on Height
- Split on Performance in Class
- Split on Class



Analytics Vidhya
Learn everything about analytics

What is Decision Tree?

- Split on Height
- Split on Performance in Class
- Split on Class



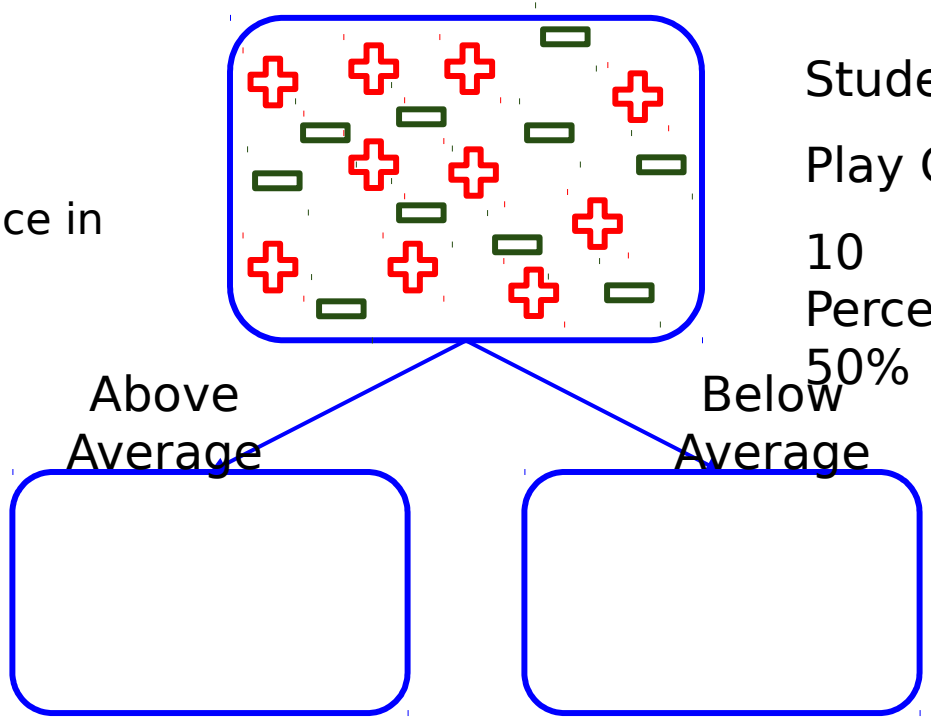
Students = 20

Play Cricket = 10

Percentage = 50%

What is Decision Tree?

- Split on Height
- Split on Performance in Class
- Split on Class



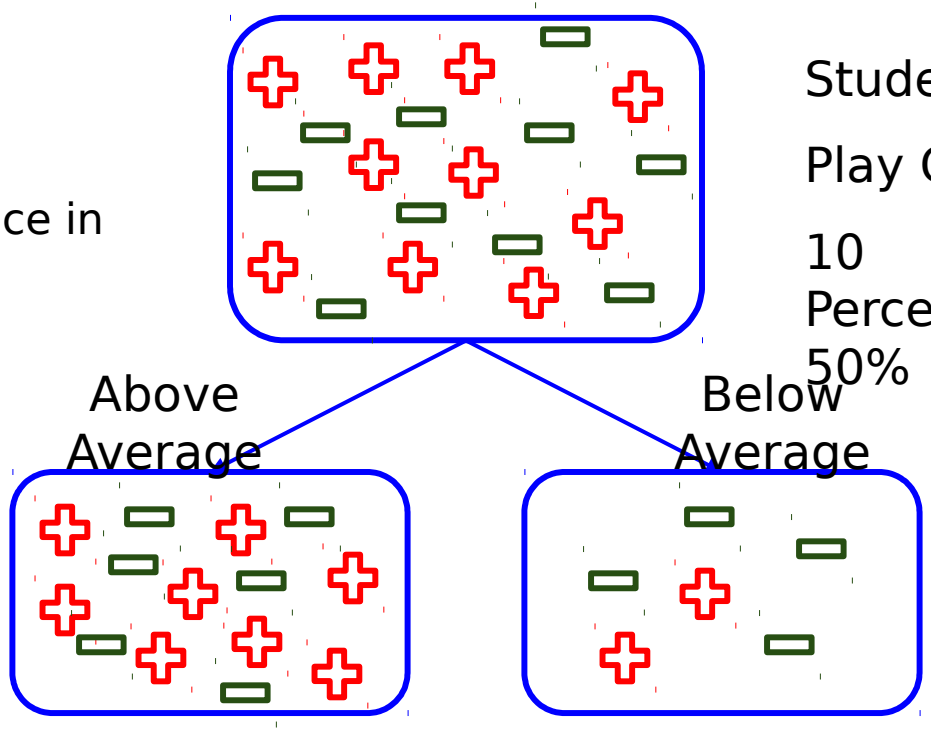
Students = 20

Play Cricket = 10

Percentage = 50%

What is Decision Tree?

- Split on Height
- Split on Performance in Class
- Split on Class



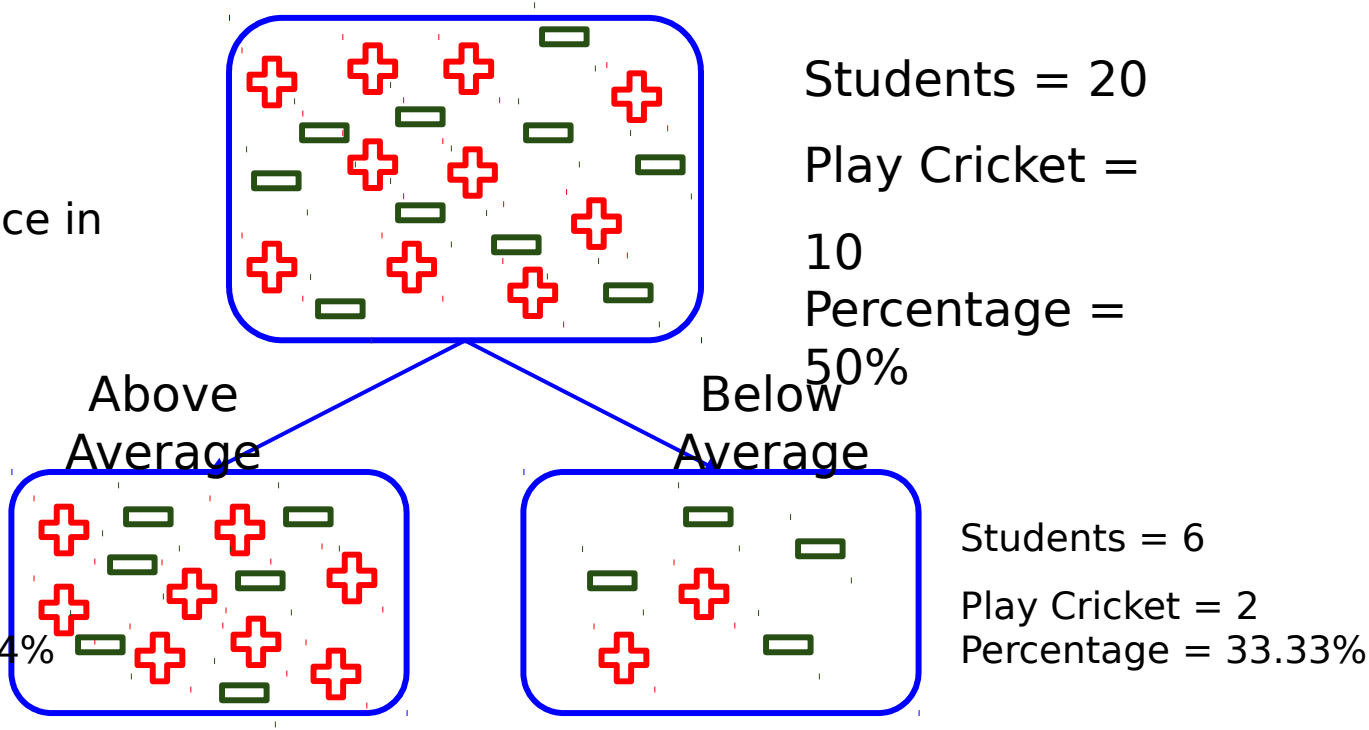
Students = 20

Play Cricket = 10

Percentage = 50%

What is Decision Tree?

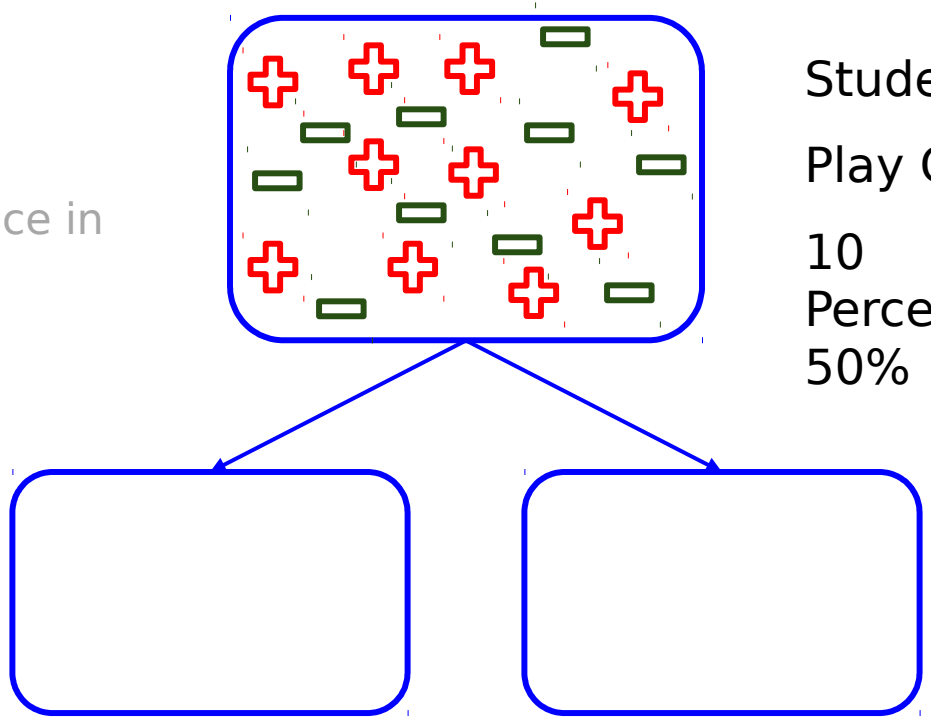
- Split on Height
- Split on Performance in Class
- Split on Class



Analytics Vidhya
Learn everything about analytics

What is Decision Tree?

- Split on Height
- Split on Performance in Class
- Split on Class



Students = 20

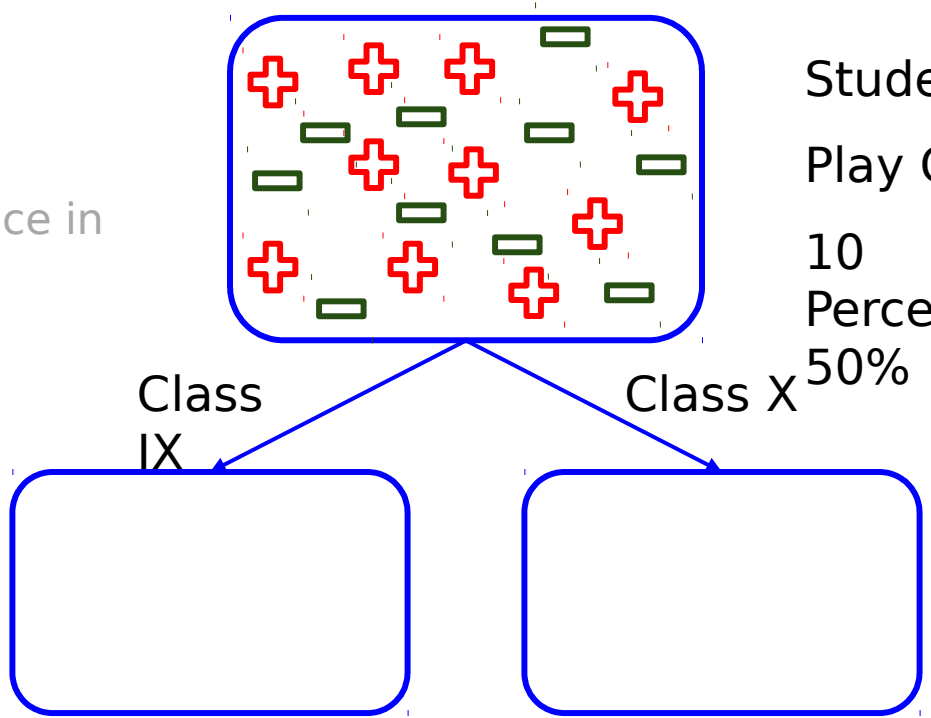
Play Cricket = 10

Percentage = 50%

Analytics Vidhya
Learn everything about analytics

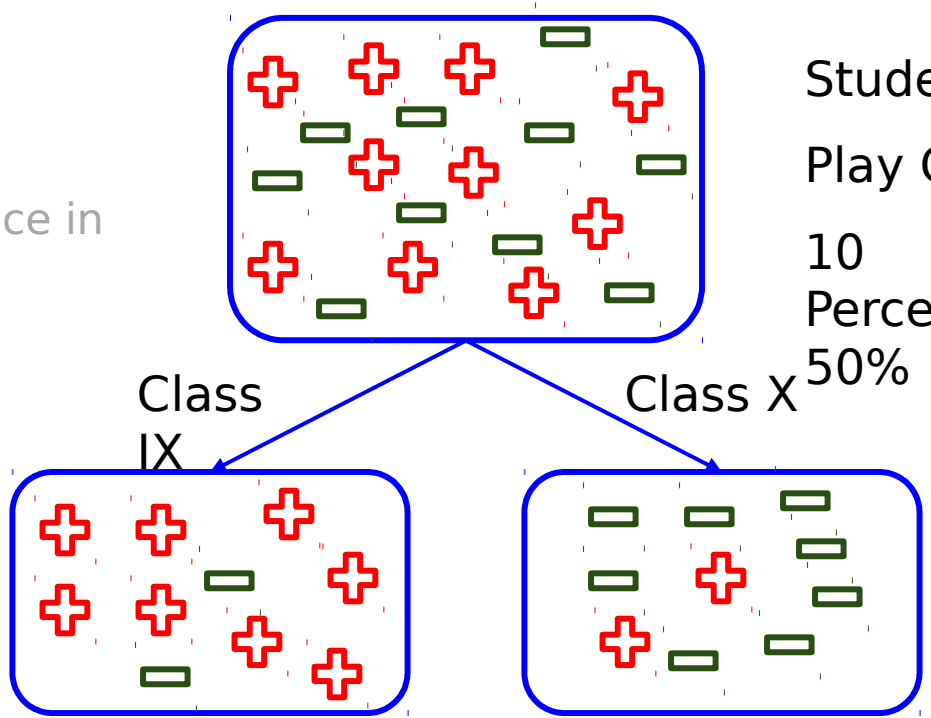
What is Decision Tree?

- Split on Height
- Split on Performance in Class
- Split on Class



What is Decision Tree?

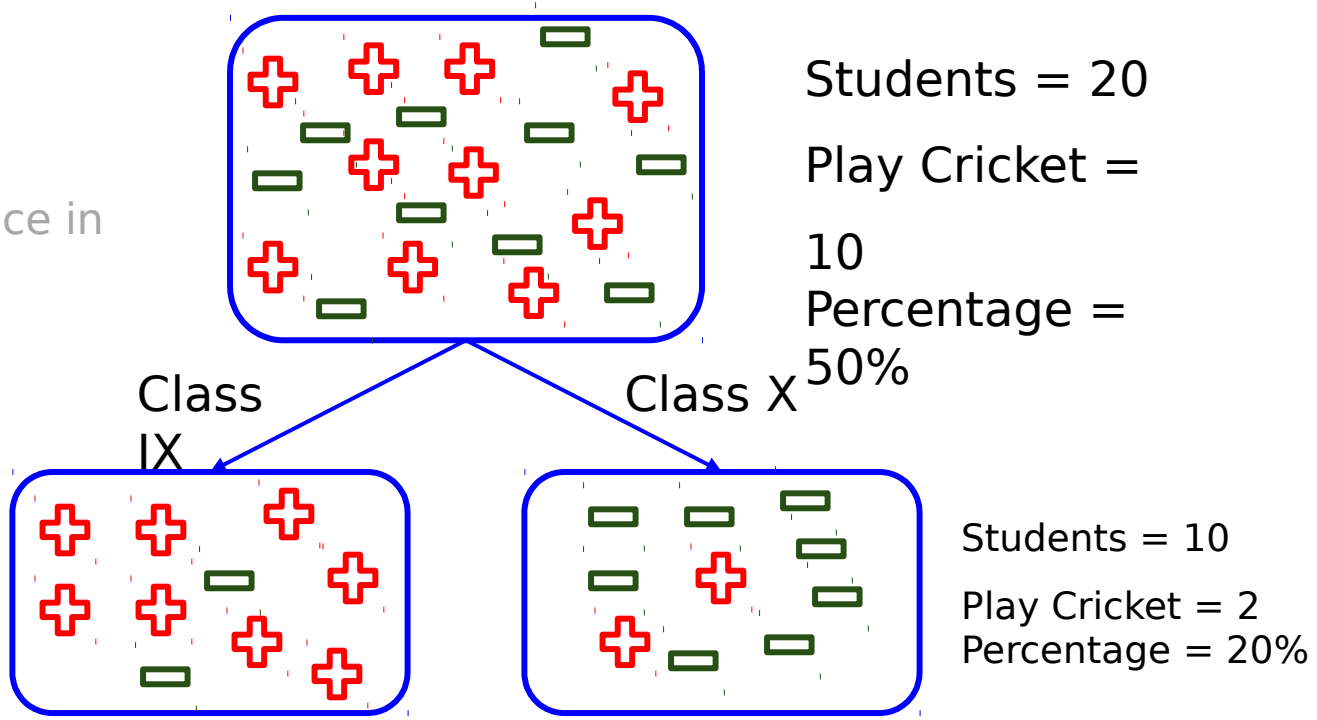
- Split on Height
- Split on Performance in Class
- Split on Class



Analytics Vidhya
Learn everything about analytics

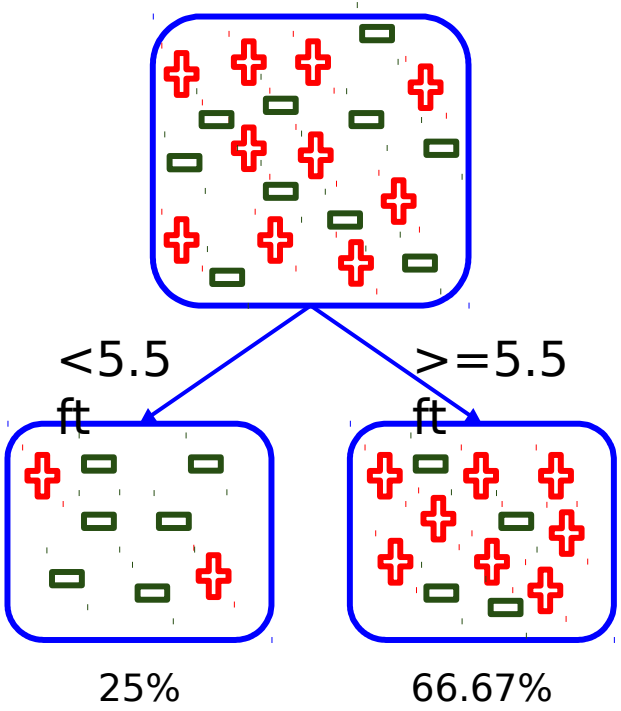
What is Decision Tree?

- Split on Height
- Split on Performance in Class
- Split on Class

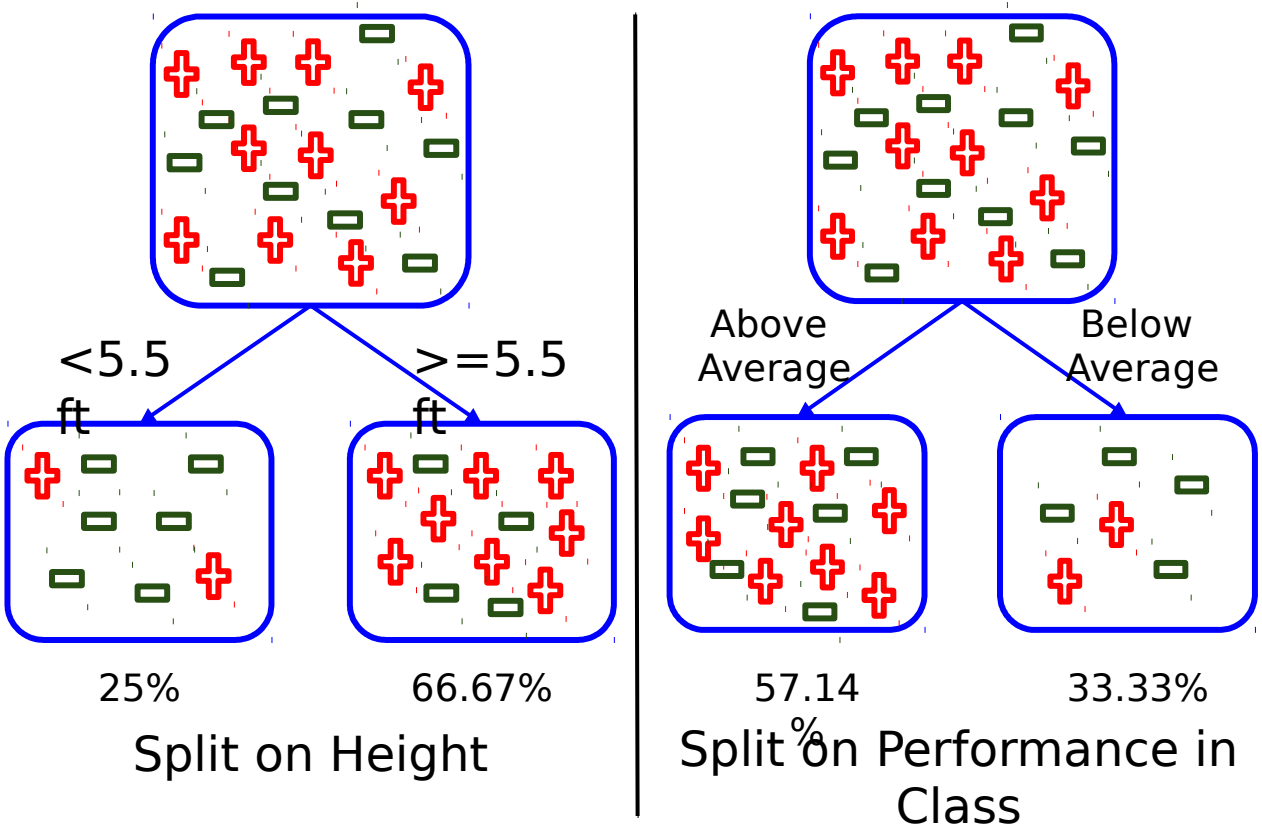


Analytics Vidhya
Learn everything about analytics

What is Decision Tree?

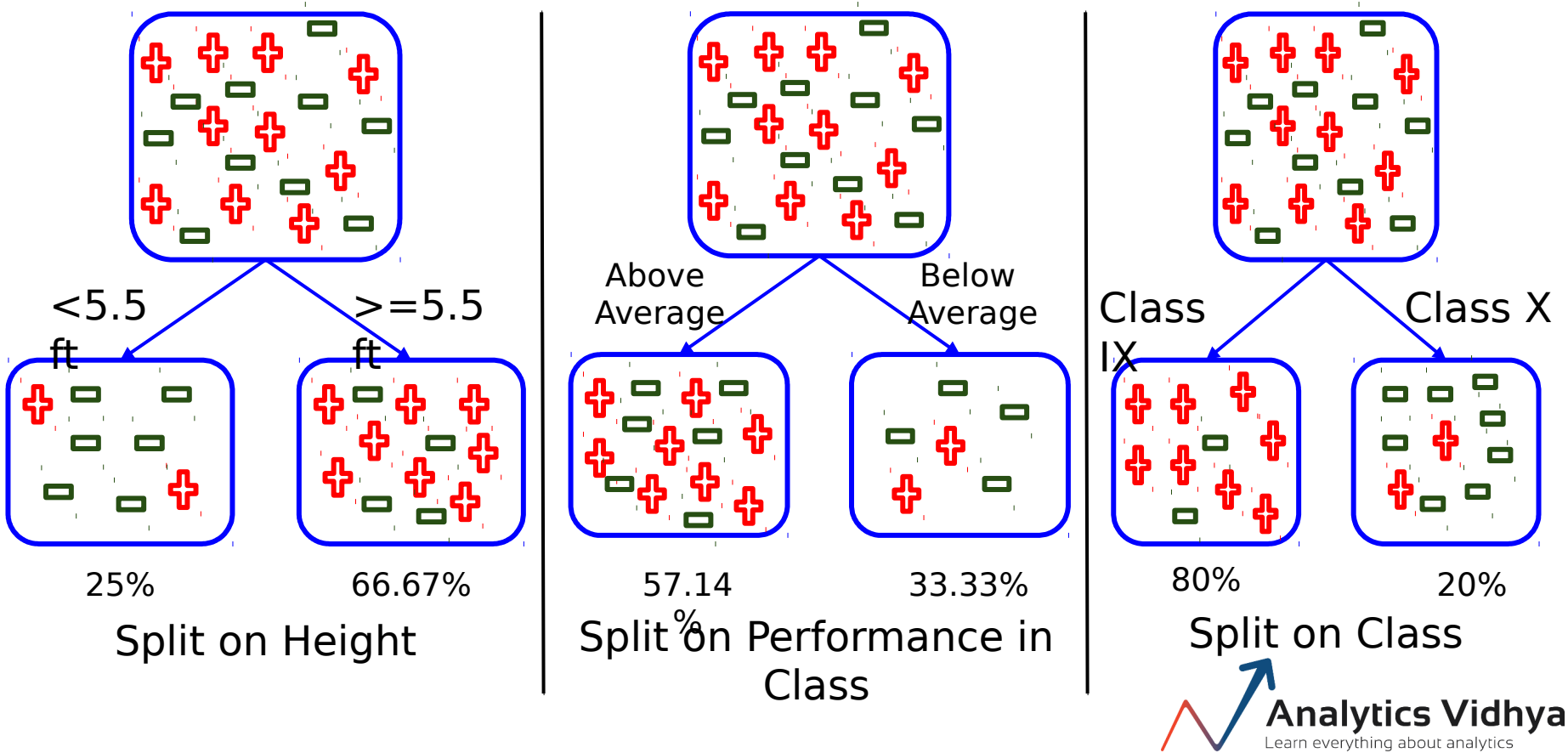


What is Decision Tree?



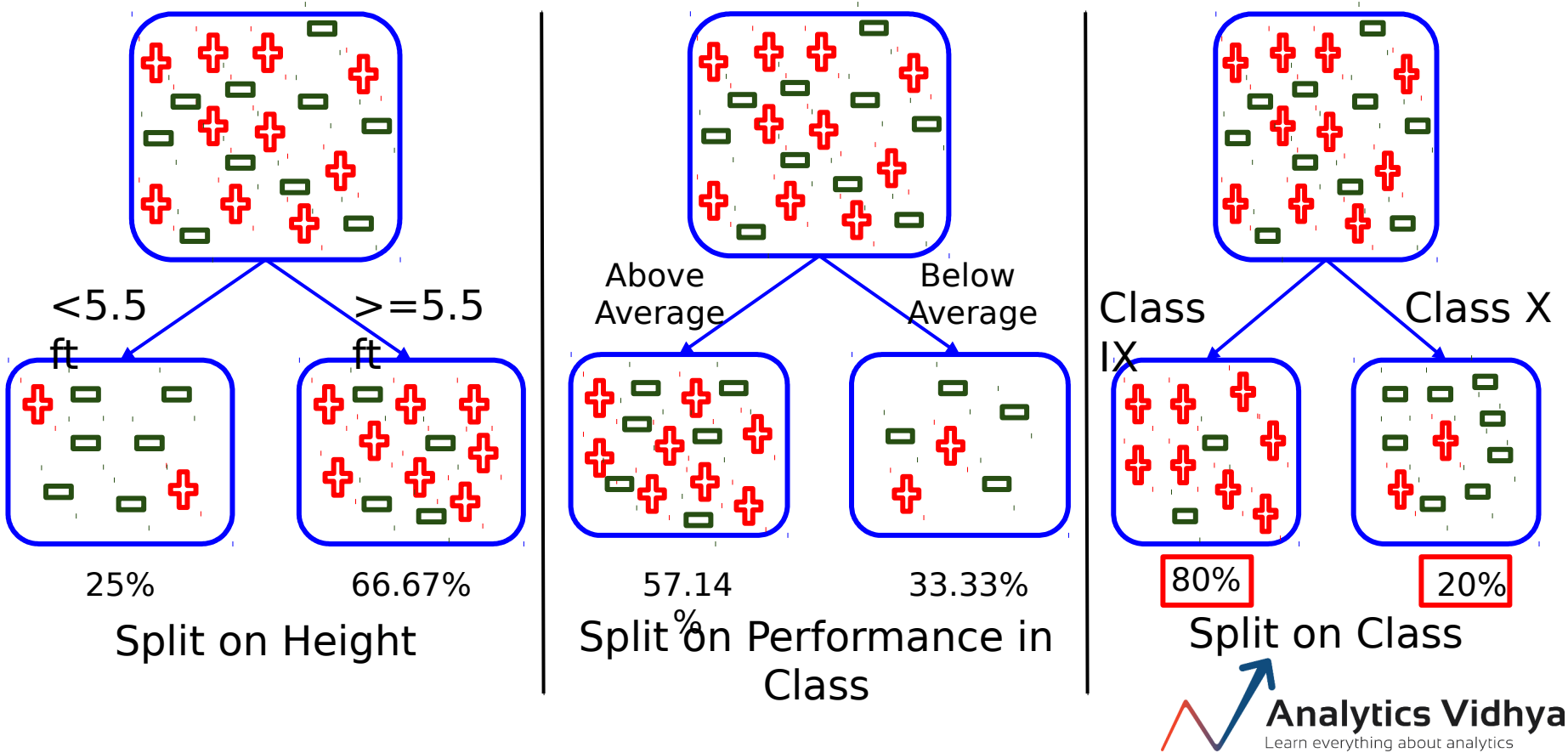
Analytics Vidhya
Learn everything about analytics

What is Decision Tree?



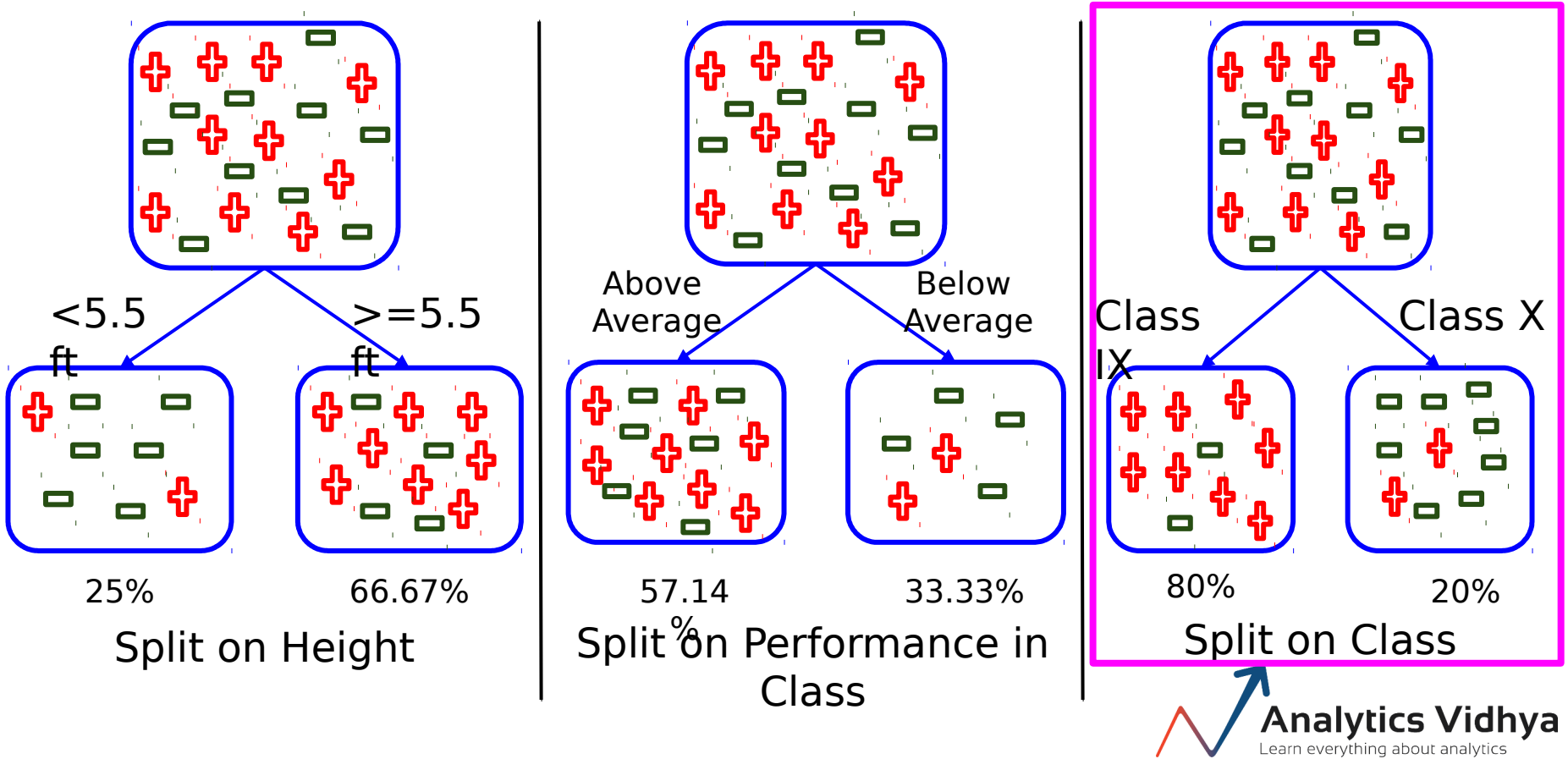
Analytics Vidhya
Learn everything about analytics

What is Decision Tree?



Analytics Vidhya
Learn everything about analytics

What is Decision Tree?



Analytics Vidhya
Learn everything about analytics

Thank
You!

Analytics Vidhya
Learn everything about analytics