

Voting Ensemble....

Q What is Voting Ensemble?

Ans Data

[In Voting Regression]

Model-1

$\rightarrow 8.54$

Mean of all the
Predictions...

Model-2

$\rightarrow 1.98$

$$\Rightarrow \frac{8.54 + 1.98 + 4.53}{3} = \underline{\underline{15.05}}$$

Model-3

$\rightarrow 4.53$

Prediction $\Rightarrow 5.01$

[In Voting Classifier]

Data

Model-1

$\rightarrow 0$

Majority Count..

Model-2

$\rightarrow 1$

Prediction $\Rightarrow 1$

Model-3

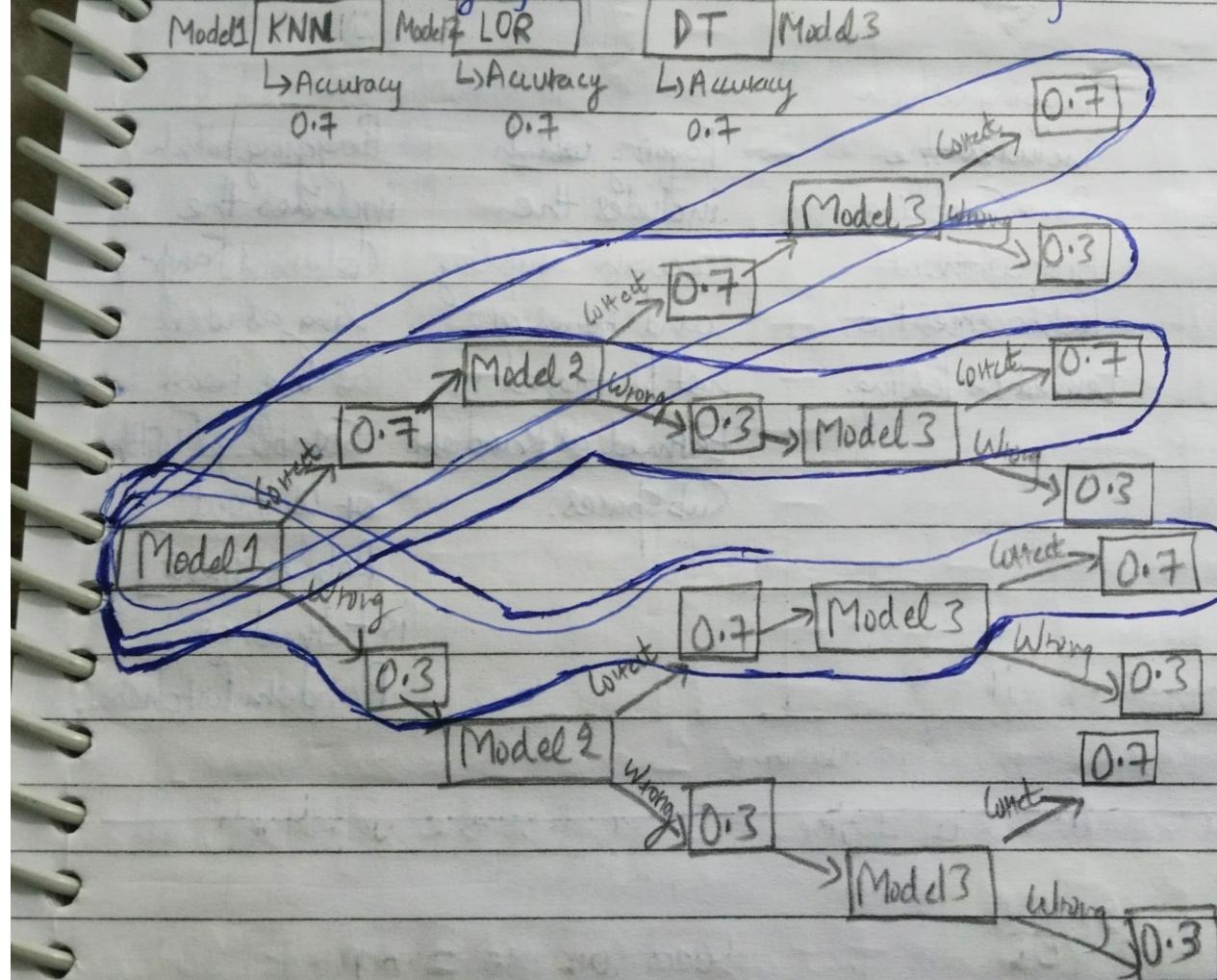
$\rightarrow 1$

Q Why Voting Works?

Ans There are 2 Assumptions which we have to follow :-

(i) All the Models should be different.

(ii) The Accuracy of each Model should be atleast greater than "0.5" or "50%".



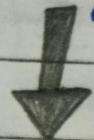
According to the chart, how the "Voting Classifier" takes the prediction as:-

1. It takes the Minimum of those Paths which includes atleast 2 correct Prediction [0.7].

Date.....

Types of Bagging

1. Bagging



Bagging includes
the Row Sampling
with Replacement.

2. Pasting



Bagging which
includes the
Row Sampling
but without
Replacement is
termed as Pasting.

3. Random
Subspaces



Bagging which
includes the
Column Sampling
and rows are
not bothered is
termed as Random
SubSpaces.

4. Random
Patches



Bagging which
includes the
Column Samp-
ling as well
as the Rows
Sampling [With
or Without
Replacement]

is termed as
Random Patches...