

value is 83.43%, while K=7 then the system gets a precision value is 80.79%, while K=8 then the system gets a precision value is 80.42%, while K=9 then the system gets a precision value is 76.68%, while K=10 then the system gets a precision value is 77.80%.

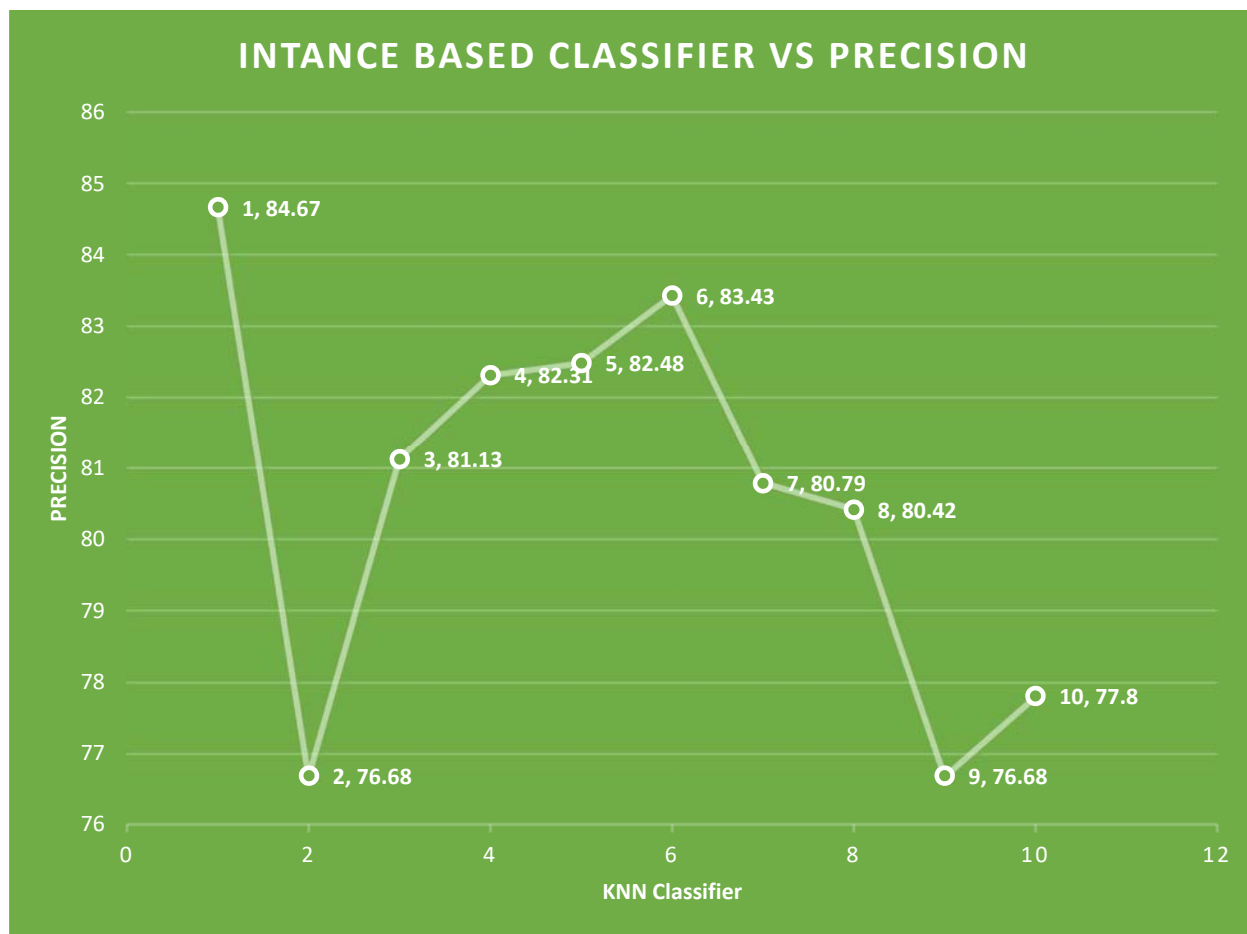


Figure 3: Instance based classifier Vs Precision

The above diagram clearly shows that the highest precision value is 84.67% while applying the parameter k=1 and very lowest precision value is 76.68% lies on k=2 and k=9.

Table 4: Instance based classifier Vs Recall

S.No	K	Recall
1	1	82.42%
2	2	74.68%
3	3	83.67%
4	4	78.59%
5	5	78.18%
6	6	86.68%
7	7	77.79%
8	8	84.66%
9	9	68.77%
10	10	75.88%

The above table clearly shows that the instance based classifier is producing the recall value levels are different while doing the parameter tuning like K parameter. In this dataset we implemented the lazy classifier while K=1 then the system gets a recall value is 82.42%, while K=2 then the system gets a recall value is 74.68%, while K=3

then the system gets a recall value is 83.67%, while K=4 then the system gets a recall value is 78.59%, while K=5 then the system gets a recall value is 78.18%, while K=6 then the system gets a recall value is 86.68%, while K=7 then the system gets a recall value is 77.79%, while K=8 then the system gets a recall value is 84.66%, while K=9 then the system gets a recall value is 68.77%, while K=10 then the system gets a recall value is 78.88%.

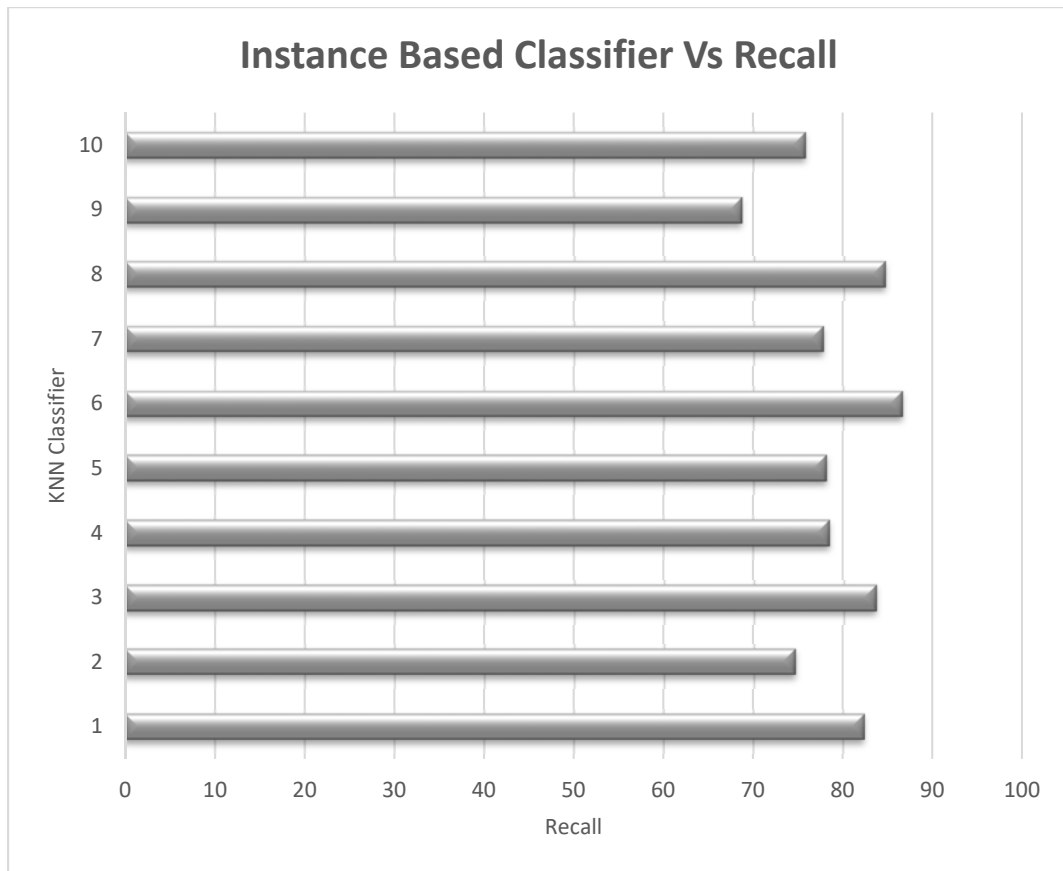


Figure 4: Instance based classifier Vs Recall

The above diagram the highest recall value is 86.69% which is produced by while applying the parameter k=6, the lowest recall value is 68.76% while applying the parameter k=9.

Table 5: Instance based classifier Vs Time

K	Time taken to build model(In Seconds)
1	0.16
2	0.18
3	0.46
4	0.22
5	0.20
6	0.88
7	0.21
8	0.11
9	0.33
10	1.21

The above table clearly shows that the instance based classifier is taking the time consumption to build the model is different while doing the parameter tuning like K parameter. In this dataset we implement the lazy classifier while K=1 then the system takes a time consumption to build the model is 0.16 seconds, while K=2 then the system takes a time consumption to build the model is 0.18 seconds, while K=3 then the system takes a time

consumption to build the model is 0.46 seconds, while K=4 then the system takes a time consumption to build the model is 0.22 seconds, while K=5 then the system takes a time consumption to build the model is 0.20 seconds , while K=6 then the system takes an a time consumption to build the model is 0.88 seconds, while K=7 then the system takes an a time consumption to build the model is 0.21 seconds, while K=8 then the system takes an a time consumption to build the model is 0.11 seconds, while K=9 then the system takes an a time consumption to build the model is 0.33 seconds, and finally while K=10 then the system takes an a time consumption to build the model is 1.21 seconds.

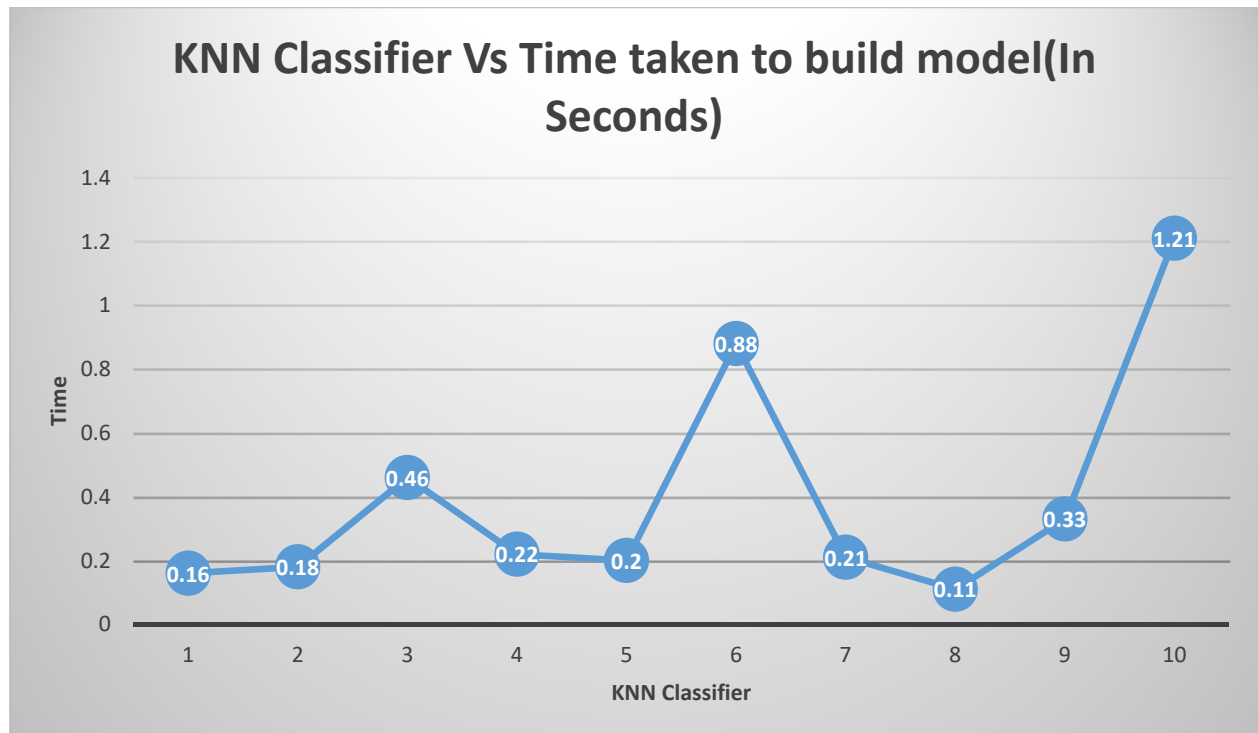


Figure 5: Instance based classifier Vs Time Consumption

The above diagram shows that the K=10 model takes more time to build the model is which is 1.21 seconds and when k=8 the model takes the less time consumption which is 0.11 seconds.

IV CONCLUSIONS

The System concludes that the when the parameter k is 6 the model produces the highest accuracy value which is 84.67% accuracy level. The highest precision value is 84.67% while applying the parameter k is 1. The highest recall value is 86.68% which is produced by while applying the parameter k=6, the lowest recall value is 68.77% while applying the parameter k=9. The model takes more time to build the model when applying the parameter k=10 and very low time consumption model is k=8 which is recommended this system for optimal solutions.

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