Performance analysis of k-nearest neighbor algorithms

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1 Introduction

- Introducing the data growth.
- About core technique in Data mining- Classification.
- Most popular classification method is KNN.

2 K-Nearest neighbor

- KNN Algorithm.
- Euclidean Distance.
- Things about KNN.

3 The requirement for parallelism

- Limitations of serialized KNN.
- Need of parallel Processing

4 Parallel KNN

- Brief on Parallel KNN.

5 Experiment

- Discussion on the cases I have taken in account for performance analysis.

6 Data

- Data that I have used for performance analysis.
- Train and Test data.

7 Evaluation

- Brief on evaluation metrics.

8 Results

- Experiment 1 result Serialized vs Parallel KNN.
- Experiment 2 result Serialized vs Parallel KNN.
- Performance analysis.

9 Conclusion

- Future work.
- Conclusion.

10 Discussion Questions

- Discussion Questions.
- Suggestions.

11 References