

CHAPTER 6

CONCLUSION

The research that has been carried out, resulting in conclusions that can be drawn from the results of this study are: the results of the cluster show that the athlete's height in the Olympics has nothing to do with medals, the results given by the BIRCH algorithm show that athletes with a height above 200cm in ball sports basketball did not get a medal but with a height below 180 cm there were those who got a gold medal in the sport of basketball. Not only basketball but also soccer, volleyball and beach volleyball and the overall results from the given clusters also show that height has nothing to do with medals, and height is not a major factor in winning an athlete. There are many other factors that affect an athlete's victory in the Olympics, namely the athlete's health, age, and how often the athlete trains to practice his skills. From the results of the V-Measure evaluation to calculate cluster performance, the cluster results for the entire basketball, soccer, volleyball, and beach volleyball clusters are still far from approaching number 1 to improve cluster performance, we must rearrange three important parameters for the BIRCH algorithm, namely branching factor, number of clusters, and threshold. For further research, we can find the best option for the three important parameters of the BIRCH algorithm.