MODIFIED NAIVE BAYES ALGORITHM ……..

by

Name of the student

B.S., University of Colorado, 2010

A Portfolio submitted to the Honors Program Faculty of the

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Modified Naive Bayes …….

Date

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Abstract: Emotions and the analysis of what produces them are a field that is largely relegated to psychologists determining the emotion that music will elicit…. …..

Honors Program Portfolio – *Rubric* as on pp. 2 of the course syllabus

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CHAPTER 1

INTRODUCTION

CHAPTER 4

RESULTS, DISCUSSION AND FURTHER RESEARCH

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[1] Treasure, Julian. "The 4 Ways Sound Affects Us." TEDGlobal2009, July 2009. Web. 09 Apr. 2015. from https://www.ted.com/talks/julian_treasure_the_4_ways_sound_affects_us#t-11867

[2] A. Aljanaki, F. Wiering, R. C. Veltkamp. Studying emotion induced by music through a crowdsourcing game. Information Processing & Management, 2015.