

Grading Criterion for Term Project Phase I

Advanced Data Structures and Algorithms

CS310, Fall 2010

Student Name: _____ TA: Binh Tran

Part 1: Classification on Mars Crater Dataset using Weka API (150 pts)	Points
<p>Java programming using Weka API for J48 classification on the real-world Mars data (155 pts)</p> <p>1. Compiles and runs correctly (25 pts)</p> <p>a. No warning or errors when compiling and running the program (10 pts)</p> <p>b. Output the accuracy of the classification, and number of correctly and incorrectly classified examples (10 pts)</p> <p>c. Test the program thoroughly (5 pts)</p> <p>2. Code Review (130 pts)</p> <p>a. Download the data set and write a Java program for converting those data sets from the CSV format to Weka ARFF forma (50 pts)</p> <p>b. Java program that calls Weka API J48 to build a classifier using 60% of data as training set and 40% of data as the test set (65 pts)</p> <ul style="list-style-type: none">• Either use default parameters by Weka or your designed parameters. <p>c. Others:</p> <ul style="list-style-type: none">• Good presentation, well-organized source code, etc... (5 pts)• Self-descriptive variable names and function names. (5 pts)• Javadoc of your project (5 pts)	<p>I. _____</p> <p>1. _____</p> <p>a. _____</p> <p>b. _____</p> <p>c. _____</p> <p>2. _____</p> <p>a. _____</p> <p>b. _____</p> <p>c. _____</p> <p>_____</p> <p>_____</p> <p>_____</p>
<p>Part 2: Report no less than 200 words (45 pts)</p> <ul style="list-style-type: none">• Discuss your choice of data structures and algorithm design (40 pts)• Report including the parameter setting and the output of the program about the accuracy of the classification, number of correctly and incorrectly classified examples (5 pts)	<p>II. _____</p> <p>_____</p> <p>_____</p>
<p>Deductions:</p> <p>1. Missing README.TXT (-5 pts)</p> <p>2. Missing correct.csv and wrong.csv files (-5 pts)</p> <p>3. Unbounded homework (-5 pts)</p> <p>4. Incorrect submitted file name (-5 pts)</p> <p>5. No hard copies or soft copies (-200 pts)</p>	<p>1. _____</p> <p>2. _____</p> <p>3. _____</p> <p>4. _____</p> <p>5. _____</p>
<p>Total Points (200 pts max):</p>	<p>1. _____</p>

Comment :

