

Assignement-3.1

Course Code	: EE871	Course Title	: Machine Learning
Credits	: 3-1-2 : 5	Instructor	: Dr. Jora M. Gonda
Weight	: 1%	Submission Deadline	: 29-01-2020, 11:30 PM

1. Consider a 9x7 grid. It is intended to create a data set of different font-types for alphabets of English, by marking a cell with “#” where any character has an impression other than a blank, as shown in Figure 1 on page 2, for my(JORA) font for A_{JORA} . The coding for a character is to be done with -1 for a blank and +1 for a “#”. Thus code the following characters into a data vector of length $I = 63$ (=9x7):

A, B, C, D, E, F, J, K, M, P, R.

Note: $i = 1$ for the left-most top-corner and $i = 63$ for the bottom-most right-corner, and read left-to-right and then top-to-bottom. Your uploads must include, the pictures of the above alphabets, and a file with listing of the codes in:

A3.1_RollNo_EE871_JMG_JAN_MAY_2020.csv, all in a zip file,

filename=A3.1_RollNo_EE871_JMG_JAN_MAY_2020.

Example: The code for my A is as follows:

$\underline{x}(A_{JORA}) = (x_1(A_{JORA}) = -1, -1, -1, +1, -1, -1, -1, -1, +1, -1, +1, -1, -1, -1, +1, -1, -1, -1, +1, -1, +1, -1, -1, -1, -1, +1, +1, -1, -1, -1, -1, -1, +1, +1, +1, +1, +1, +1, +1, +1, +1, +1, -1, -1, -1, -1, -1, +1, +1, -1, -1, -1, -1, -1, +1, +1, -1, -1, -1, -1, -1, +1, +1, -1, -1, -1, -1, -1, +1 = x_{63}(A_{JORA}))$.

The .odt file for creating the characters is also attached herewith for your convenience.

			#			
		#		#		
	#				#	
#						#
#						#
#	#	#	#	#	#	#
#						#
#						#
#						#

Figure 1: Picture for character ‘A’