

ECE 313 Final Project Report

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Task 0:

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1  clear all;
   clc;

3
   load 1_a41178.mat;
5  patient1_data = floor(all_data);
   patient1_labels = all_labels;
7  training1 = patient1_data(:,1:(2*length(patient1_data)/3));
   testing1 = patient1_data(:,(2*length(patient1_data)/3):length(
9  patient1_data));
   label_training1 = patient1_labels(1:(2*length(patient1_labels)
   /3));
   label_testing1 = patient1_labels((2*length(patient1_labels)/3):
11  length(patient1_labels));

   load 2_a42126.mat;
13 patient2_data = floor(all_data);
   patient2_labels = all_labels;
15 training2 = patient2_data(:,1:floor(2*length(patient2_data)/3))
   ;
   testing2 = patient2_data(:,floor(2*length(patient2_data)/3):
17  length(patient2_data));
   label_training2 = patient2_labels(1:floor(2*length(
   patient2_labels)/3));
   label_testing2 = patient2_labels(floor(2*length(patient2_labels
   )/3):length(patient2_labels));

19
   load 3_a40076.mat;
21 patient3_data = floor(all_data);
   patient3_labels = all_labels;
23 training3 = patient3_data(:,1:(2*length(patient3_data)/3));
   testing3 = patient3_data(:,(2*length(patient3_data)/3):length(
   patient3_data));
25 label_training3 = patient3_labels(1:(2*length(patient3_labels)
   /3));
   label_testing3 = patient3_labels((2*length(patient3_labels)/3):
   length(patient3_labels));

27
   load 4_a40050.mat;
29 patient4_data = floor(all_data);
   patient4_labels = all_labels;
31 training4 = patient4_data(:,1:floor(2*length(patient4_data)/3))
   ;
   testing4 = patient4_data(:,floor(2*length(patient4_data)/3):
   length(patient4_data));
33 label_training4 = patient4_labels(1:floor(2*length(
   patient4_labels)/3));
   label_testing4 = patient4_labels(floor(2*length(patient4_labels
   )/3):length(patient4_labels));

35
   load 5_a41287.mat;
37 patient5_data = floor(all_data);
   patient5_labels = all_labels;
39 training5 = patient5_data(:,1:(2*length(patient5_data)/3));
   testing5 = patient5_data(:,(2*length(patient5_data)/3):length(
   patient5_data));
41 label_training5 = patient5_labels(1:(2*length(patient5_labels)
   /3));
   label_testing5 = patient5_labels((2*length(patient5_labels)/3):
   length(patient5_labels));

43
   load 6_a41846.mat;
45 patient6_data = floor(all_data);
   patient6_labels = all_labels;
47 training6 = patient6_data(:,1:floor(2*length(patient6_data)/3))
   ;
   testing6 = patient6_data(:,floor(2*length(patient6_data)/3):
   length(patient6_data));
49 label_training6 = patient6_labels(1:floor(2*length(
   patient6_labels)/3));
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