

Challenging Problems - Set II

1) Implement an automatic attendance recording system based on persons voice recognition for datawarehousing course.

- a) Audio voice sample collection for class strength of 70 (5 marks)
- b) Classifier model building from the sample data (10 marks)
- c) Classification accuracy measurement (5 marks)

2) Design a student feed back evaluation system (content based) for a specific course.

- a) Feedback (content) collection from 50 participants for a course. (5 marks)
- b) Build two Classifier models using the collected data (10 marks)
- c) Show classification accuracy of both the classifiers (5 marks)

3) Build an automatic text miner to show the spreading trend and effect of zika virus in different countries.

- a) Collect twitter post and tweets for a period of oneweek. (5 marks).
- b) Use appropriate mining task to measure the spreading trend and effect. From the sample (10 marks)
- c) Use any two visualization techniques to show the result. (5 marks)

4) Construct a text mining system to monitor inflammatory and sensitive data that are threat to the national interest of our country.

- a) Collect facebook posts of different inflammatory and sensitive data with respect to our country (100 samples). (5 marks)
- b) Build two different classifiers using the sample data (10 marks)
- c) Compare the classification accuracy of the two models. (5 marks).