**Pseudo Code Algorithm for VQCNN(LVQ+RCNN)**

1. Fetch the entire ‘student-mat.csv’ dataset and divide it into X-Y sets
2. Perform Standardization on Each Attribute in X/y set & remove Unnecessary Attributes
3. Perform Normalization of Data to change the form of Optional type of data into numeric values, like attributes with options like Yes:1, No:0 and 'Sci&Tech':0, 'Comm&Mgmt':1, 'Arts':2 and True:0, False:1 etc.
4. Perform Train-Test Split(X\_train,X\_test,y\_train,y\_test) of X-Y set of Data
5. Apply Feature Selection on training data through various techniques like VarianceThreshold, CorrelationAnalysis, FisherScore and mutual\_info\_classif(which will help us detect or convert our data into continues, classified or multiclass type of data)
6. Calculate the no. of student who selected site Arts, Commerce and Science after 10th
7. Check those student performance in half yearly exams in their respective site at elementary school.
8. Based on their performance suggest student to change the site.
9. site changing will be determine by student’s high school subject performance.
10. Perform Feature Extraction and remove all the Non-Constant and Non-Correlated attributes
11. Based on the mutual info classification convert data into multioutput-continues/ continues data so the model can accept that form
12. Calculate Vector Quantization from Tokenizing the Data at LVQ
13. Send the Quantisation Value to CNN/RCNN and train the model with this neural network
14. Process all tokens of Training Data for testing the model
15. Execute the model and Predict the student marks based on test data.
16. Find Confusion-Matrix from CNN/RCNN Saved Model(After Epoch=100%)
17. Classification Report based on Confusion-Matrix
18. Find Accuracy, Precession, Recall and F1 Score of predicted data from executed model.