```
BEGIN filterText (output)
     swears = FALSE
     negative = FALSE
     filterText = TRUE
     outputText = “”
     DISPLAY “What would you like to post?”

     WHILE filterText == TRUE:
          GET inputText

          // Check for inappropriate words
          words = split inputText into individual words
          profanityList = [“%&$@”, “#&%”, …, “$*&$”]

          FOR word IN words STEP 1
               IF profanityList contains word (lowercase) THEN
                    swears = TRUE
               ELSE
                    swears = FALSE
               ENDIF
          ENDFOR

          // Check for negative sentences
          model = createModel

          IF model(inputText) == 1 THEN
               negative == TRUE
          ELSE
               negative == FALSE
          ENDIF

          IF (swears == TRUE) OR (negative == TRUE) THEN
               DISPLAY “That sentence is a bit too negative. Try
     again:”
          ELSE
               outputText = inputText
               filterText = FALSE
          ENDIF
     ENDWHILE

     RETURN outputText
END filterText



BEGIN createModel (model)
     trainingData = [“I hate you”, “School is fun”, “You suck!” …]
```

```
    // 1 for negative, 0 for positive
    trainingScores = [1, 0, 1, …]

    // Define model architecture
    model = Sequential CNN model
    model.ADD(EmbeddingLayer)
    model.ADD(LSTMLayer)
    model.ADD(DenseLayer)

    // Compile the model
    model.COMPILE(optimizer='adam', loss='binary_crossentropy',
metrics=['accuracy'])

    // Tokenize input data and convert to sequences
    tokenizer = TOKENIZE(trainingData)
    sequences = TEXT_TO_SEQUENCE(tokenizer)
    padded_sequences = PAD_SEQUENCES(sequences)

    // Train the model
    model.FIT(padded_sequences, trainingScores)

    RETURN model
END createModel
```