CIS 4930 NLP // HW #7 // Spring 2018

Date Assigned: February 28, 2018
Date Due: March 14, 2018

Submission Format

You will submit a soft copy of your solution using e-Learning (http://elearning.ufl.edu) by the end of the day (23:59 / 11:59 PM) on the assigned date (March 14). Submit one file, **hw7.pdf**.

Assignment

At the top of every solution file you submit this semester include: your name, section number, the assignment number, and the date due. Create the Finite State Automaton described in the Exercises. To assist you in creating the diagram, you may hand write and then scan your solution. However, ensure you write clearly and neatly. Also, do not forget to include your mathematical definitions for $Q, \Sigma, etc.$

Exercises

1. So you have Jenny's number and you call it all the time. You call it so often in fact, that you have gotten to know many of the people and businesses with similar numbers, with whom you share a few seconds of awkward conversation whenever you misdial Jenny's number on your rotary telephone. Create a finite state automaton to represent the dialing of Jenny's number as well as the other numbers listed below. Be sure to include the process of hanging up and starting over in your diagram. To assist you in creating the diagram, you may hand write your solution. However, ensure you write clearly and neatly. Also, do not forget to include your mathematical definition for Q, Sigma, etc.

List of Numbers	
Person / Business	**Number**
Jenny	867-5309
Alex Call	857-5309
Dr Edward Feelgood	867-5409
The Love Shack Gifts and Novelties	867-5319
Jim Keller	864-5309
Sweet Dreams Mattress Co	867-5318
Round and Round Roller Rink	867-5308
Tommy Tutone	861-5309
Little White Wedding Chapel	967-5309
Don’t Stop Believing Interfaith Ministry	868-5309