CSC 151 Spring 2020
Topic: Project Introduction

April 17, 2020

Day 32

Exam 3 Reminder

Exam 3 epilogue and cover sheet are due tonight (Friday) at 10:30 pm Central Time!

CSC 151 Project

Project Overview

Find and use a new data set
Do some data "wrangling" to make the data set usable
Write a novel algorithm that helps you understand the data

Goals

Apply what you've learned this semester
Do something new and interesting
Think critically about both data and algorithms

Example Project Ideas

Text Classification
What language is this text in? Are these movie reviews positive or negative?

Making Predictions
What can location tell you about a person's age, health, education, or income?

Generating Text
Produce sequences of words reminiscent of Shakespeare, Hamilton, or reddit.

Dealing with Data
Automatically find interesting associations in a dataset
General tools for processing and plotting data

Data Ideas

Data could be found from one of these sites:
Kaggle
UCI websites

Spend some time thinking about what types of data or project might interest you. Explore those sites if you want.

Graded Components

Part 1: Project Ideas *Due on Tuesday April 21*
Give 3 potential project ideas.

Part 2: Project Proposal *Due on Friday April 24*
Decide on a data set and describe what you plan to do with it.
Write about expected work, fall back idea(s), and a reach goal.

Part 3: Project *Due on Tuesday May 5*
Implement your project.
Be prepared to adjust your plans if unexpected things occur.

Part 4: Project Presentation *Due Friday May 8*
Describe the project and show the results.

Project Groups

For the project, you have the option to work individually, or in a small group. Here are some things to consider when making this decision:

- The work does not need to be done synchronously, meaning you don't have to be working at the same time.
- However, drastically different time zones may make communication between group members slow.
- The work can be split up. It might be nice to have students with different strengths working together. For instance: writing, coding, creativity, planning abilities, etc.

To Do: Survey

After carefully reading through the previous slides, and taking into consideration the many things I mentioned regarding groups, and topics, complete the following survey.

The survey will be used to assign groups. If you have trouble accessing it, please email me - you must fill out the survey!

Link to Survey