**Creative Project**

Description:

To develop an interactive dashboard for data visualization.

Technologies proposed – D3.js, Python, Flask, MongoDB

Rubrics:

The dashboard is meaningful representation of the data – 5 points

Each chart/graph represents a different set of data – 5 points

Database

- Create static MongoDB database – 10 points

- Store and access data using queries – 5 points

- Interact with database using python – 5 points

Server

- Develop a server in Flask – 15 points

UI

- Use JavaScript library/libraries for user interaction using D3 – 30 points

- Graphs and Charts

1. Extract data for displaying a total of 3 different graphs/charts

2. Render graphs/charts on UI

* ***Best Practices (13 points):***
  + Code is well formatted and easy to read, with proper commenting (4 points)
  + All pages pass the W3C validator (3 points)
  + Your code passes *JSHint* or *JSLint* (3 points)
  + Use CDN for CSS wherever possible (3 points)
* ***Usability (5 Points):***
  + Site is visually appealing (5 points)
* ***Creative Section – Additional Functionality (7 Points):***
* Use of an additional libraries – DC.js and Crossfilter.js (5 points)
* Additional chart displaying count of students (2 points)