## CSC790: Information Retrieval Spring 2024, Programming Assignment #4 Date Assigned: Monday, April 1, 2024

Due Date: Friday, April 12, 2024 at 11:59 pm (on Brightspace) (150 + 30 points)

## **Objectives:**

• Implementing probabilistic retrieval model.

## **Tasks**

Download the folder HW04 from Brightspace. The folder contains the following:

- 1. **documents:** contains the text files.
- 2. **file\_label:** contains file relevance labeling, it has the following format: [file\_name, rel] where  $rel \in \{0, 1\}$
- 3. **query:** a file contains the query.

Write a python code that implements the binary independence model (slides 26-38). Your code should display the top 10 documents with high RSV. Your output should look like.

```
First Name: your first name

Last Name: your last name

RSV{file_name1} = 22.9 file_label

RSV{file_name2} = 14 file_label

RSV{file_name3} = 12 file_label

RSV{file_name4} = 10.9 file_label

RSV{file_name5} = 9 file_label

RSV{file_name6} = 4 file_label
```

## Submission

- 1. Write your own code. Use as many functions as you can.
- 2. Make sure you writing you name and assignment number on all files you submit
- 3. Your python code (in .py format) and the instructions on how to run it.
- 4. Enclose all your files in a folder named **HW04\_yourlastname.zip**.
- 5. Submit the zip file using Brightspace.