CSCI 420-03: Analysis Plan

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1 Research Questions

A list of at least 9 (more desired) research questions (i.e., 3 per analysis goal).
RQ1: *What are your research questions?*
RQ2: *There should be at least nine, three per goal, but more would be better. Do you have nine questions?*
RQ3: *Make sure the questions are specific, concrete, and unambiguous. Are they?*

Your analysis should answer all the research questions, i.e., **RQ1**→**RQ3**.

2 Hypotheses

A high level description of how you plan to answer the research questions, along with a list of hypotheses.

3 Evaluation Plan

A description of how you plan to answer the research questions. The experiments may mirror the research questions, or multiple research questions (e.g., **RQ1** and **RQ2**) may be answered by a single experiment. A simple approach for designing the evaluation plan would be to design an experiment for testing each hypothesis, which in turn will answer the research questions.

3.1 Name of Experiment 1

State some hypothesis for the experiment. Note which hypothesis and research question(s) it is designed to address.

3.1.1 Experimental Setup

Describe *how* you are going to test the hypothesis. That is, what techniques/tools you are planning to use. Go into as much detail as possible. Be realistic in what you can achieve in the given time frame.

3.1.2 Expected Results

Describe the specific measurements and metrics you plan to use. Describe what constitutes success (i.e., what you expect to achieve).

3.2 Name of Experiment 2

State some hypothesis for the experiment. Note which hypothesis and research question(s) it is designed to address.

3.2.1 Experimental Setup

Describe *how* you are going to test the hypothesis. That is, what techniques/tools you are planning to use. Go into as much detail as possible. Be realistic in what you can achieve in the given time frame.

3.2.2 Expected Results

Describe the specific measurements and metrics you plan to use. Describe what constitutes success (i.e., what you expect to achieve).

3.3 Name of Experiment 3

State some hypothesis for the experiment. Note which hypothesis and research question(s) it is designed to address.

3.3.1 Experimental Setup

Describe *how* you are going to test the hypothesis. That is, what techniques/tools you are planning to use. Go into as much detail as possible. Be realistic in what you can achieve in the given time frame.

3.3.2 Expected Results

Describe the specific measurements and metrics you plan to use. Describe what constitutes success (i.e., what you expect to achieve).

References