**Computer Science Capstone Topic Approval Form**

The purpose of this form is to ensure your project meets the minimum requirements. Therefore, we only need to see a rough outline of a project that can meet the minimum rubric requirements. Changes from task 1 to task 2 are allowed and expected. Other than checking the approved topic, evaluators will not compare Task 1 to Task 2. **REMOVE ALL TEXT IN RED** before emailing this form to your assigned course instructor for approval.

*Note: Any costs associated with developing the application will be the responsibility of the student.*

PROJECT SUMMARY

1. **Project topic and purpose:**

Describe the problem (the “organizational need”) your project will solve.

1. **Data:**

Data source:

List your planned [data source](https://ashejim.github.io/C964/task1.html#datahttps://ashejim.github.io/C964/task1.html).

Potential use of proprietary company information.

If this box is *not* marked, then you do not need to submit a [waiver form](https://ashejim.github.io/C964/task1.html?highlight=irb#waiver-form).

This project does not involve human subjects research and is exempt from WGU IRB review.

You only need to apply for [IRB review](https://cm.wgu.edu/t5/Frequently-Asked-Questions/WGU-IRB-and-Human-Subject-Protections-FAQ/ta-p/2002) if you are *collecting* data involving human participants (this is very rare). Otherwise, your project is in IRB compliance.

1. **Machine Learning (ML) Application:**

Describe how machine learning will be applied for *at least one* of the below:

* **Non-descriptive Method(s)**

A method that infers from the data, i.e., make predictions or prescriptions. Examples include classification models, regression, image recognition, etc. **Typically, but not necessarily, this is where ML is applied.**

* **Descriptive Method(s)**

A method that describes the data or a non-descriptive method, e.g., k-means clustering, cosine similarity, PCA, etc.

1. **Visualizations:**

Three unique images must be presented in the final app *or* supplemental code. Examples include bar plots, histograms, pie graphs, confusion matrices, etc. These images are also descriptive methods. See [visualization requirements](https://ashejim.github.io/C964/task2_c/task2_part_c.html#visualization-requirements).

DESIGN and DEVELOPMENT

1. **Development Outline:**

Provide a brief description of how you will develop your ML application.

1. **Programming/development language(s) you will use:**
2. **Operating system(s) or platform(s) you will use:**
3. **Projected completion date:**  
   You will not be held accountable to this date. It is only so your CI can better understand your personal goals.

**STUDENT SIGNATURE**

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

By signing and submitting this form, you acknowledge that any costs associated with the development and execution of the application will be your (the student's) responsibility.

Signatures can be submitted by typing your name (preferred), inserting an image of your signature, or scanning a physical signed copy.

**COURSE FACULTY SIGNATURE**

**INSTRUCTOR’S SIGNATURE:**

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**INSTRUCTOR APPROVAL DATE:**