**Data Management and Data Analytics Capstone Topic Approval Form**

**Capstone Topic Approval Form**

The purpose of this document is to help you clearly explain your capstone topic, project scope, and timeline. Identify each of the following areas so you will have a complete and realistic overview of your project. Your course instructor cannot approve your project topic without this information*.*

REMOVE ALL TEXT IN RED. The purpose of Task 1 is to ensure that students begin working on a project that can pass. Therefore, changes from task 1 to task 2 are allowed and expected.

**Student Name:**

**Student ID:**

**Capstone Project Name:**

**Project Topic**:

**Research Question:**

**Hypothesis:** Consider an argument supportable using a statistical significance as this best fits the rubric requirements, e.g., hypothesis comparing statistics such as means or establishing correlations between variables.

**Context:**

**Data:** Provide links or source information for accessing your data.

**Data Gathering:**

**Data Analytics Tools and Techniques**:

**Tools:** List the data analysis tools to be used, e.g., Python, R, Excel, Tableau, etc.

**Techniques:** List the statistical or analytic methods you will use for the data analysis. Include a method that can support your hypothesis to fulfill task 2 part C and task 3 part F requirements. An inductive argument using only descriptive methods will not suffice. In most cases, you should use statistically significant results from an inferential statistical test. Examples:

* Correlation tests, e.g., a hypothesis test showing two variables are correlated/
* Comparison tests, e.g., a hypothesis test showing two means are different.
* Estimating parameters, e.g., a confidence interval estimating a mean.

**Justification of Tools/Techniques:**

**Application Type, if applicable (select one):**

**☐** Mobile

**☐** Web

**☐** Stand-alone

**Programming/Development Language(s), if applicable:**

**Operating System(s)/Platform(s), if applicable:**

**Database Management System, if applicable:**

**Project Outcomes:**

**Projected Project End Date:**

**Sources:**

**Human Subjects or Proprietary Information**

Does your project involve the potential use of human subjects? (Y/N):

This should only be marked if you will directly collect data from people. This should almost always be marked NO.

Does your project involve the potential use of proprietary company information? (Y/N):

This does not apply to any open-source or freely available data sets.

**STUDENT SIGNATURE**

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

**By signing and submitting this form, you acknowledge** that any cost associated with the development and execution of your data analytics solution will be your (the student) responsibility.

**TO BE FILLED BY A COURSE INSTRUCTOR**

**The capstone topic is approved by a course instructor.**

**COURSE INSTRUCTOR’S NAME AND SIGNATURE:**

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**COURSE INSTRUCTOR APPROVAL DATE:**

**Project Compliance with IRB (Y/N): Y**