Computer Science 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 these areas so that you will have a complete and realistic overview of your project. Your course instructor cannot sign off on your project topic without this information.

Note: You must fill out and submit this form. Space beneath each number will expand as needed.

Any cost associated with developing the application will be the responsibility of the student.

INFORM INSTRUCTOR:

Potential use of proprietary company information: (Y/N) No

ANALYSIS:

1. Project topic AND description:
   Housing price predictor. My proposed project will use a data set of recently sold houses and the houses primary attributes to predict what a new listing should be listed at based on the size and number of rooms for the the new property.
2. Project purpose/goals:
   To accurately assess a new potential listing and determine the sale price the property should be listed for sale as.
3. Descriptive method:
   Multiple linear regression will be utilized as the predicting model for this project. The model will use critical information about a property like size and number of rooms.
4. Predictive/Prescriptive method:
    The project will predict the price of a house.

DESIGN and DEVELOPMENT:

1. Computer science application type (select one):
   Stand-Alone
2. Programming/development language(s) you will use:
   Python
3. Operating System(s)/Platform(s) you will use:
   Windows 11 Home
4. Database Management System you will use:
   None, data will be provided with a csv file
5. Estimated number of hours for the following:
   i. Planning and Design:2
   ii. Development:4
   iii. Documentation:7
   iv. Total:13

6. Projected completion date:
   9/30/2023

IMPLEMENTATION and EVALUATION:

1. Describe how you will approach the execution of your project:
   I will first work on part C of the project to ensure that the project functions properly. Then I will focus on the documentation required for the project.

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

STUDENT SIGNATURE

_____Joshua Gibson_____

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

COURSE INSTRUCTOR SIGNATURE:

James R Ashe

  Jim Ashe, Ph.D. Mathematics

COURSE INSTRUCTOR APPROVAL DATE:

  Sunday, September 17, 2023