

Olympic College

Bachelor of Applied Science in Information Systems

IS490 Senior Project I

Quarter: Winter Year2 2025	Completion date: 3/20/25
Student: Robert Serembe	Faulty advisor: Prof. Becker

PURPOSE: The Project Objectives/Activities listed here will describe the tasks the student is assigned to complete during this Senior Project. Additional tasks may be added if needed. At least four objectives must be defined.

1. **WHAT** are you going to accomplish? . Data Collection for example-
HOW are you going to accomplish it? (List the steps to achieve objectives, add more if needed.)
 - A. By Identifying the relevant data sources
 - B. Clinical Outcomes
 - C. Demographic and Provider Data

HOW can you measure the results? Through evaluating the statistical significance of relationship between performance indicators

2. **WHAT** are you going to accomplish? Data Cleaning & Preprocessing
HOW are you going to accomplish it? (List the steps to achieve objectives, add more if needed.)
 - A. handling missing data
 - B. standardizing formats
 - C and by detecting the treat outliers

HOW can you measure the results? Doing a consistent formatting

3. **WHAT** are you going to accomplish? Predictive Modeling
HOW are you going to accomplish it? (List the steps to achieve objectives, add more if needed.)
 - A. Define your target variable
 - B. Use features like wait times, staffing ratios, clinical outcomes, and patient demographics.
 - C. Implement regression models

HOW can you measure the results? Model accuracy

4. **WHAT** are you going to accomplish? Data Visualization & Reporting
HOW are you going to accomplish it? (List the steps to achieve objectives, add more if needed.)
 - A Design a dashboard to visualize the results
 - B. create interactive dashboards

HOW can you measure the results? Insight clarity

Robert serembe

Student Signature

1/8/25

Date

Prof. Becker

Faculty Advisor

Date
