

CISC 225 - System Analysis and Design

**Final Project (Task 2)**

Step 1: Create a Work Breakdown Structures

1. Identify Tasks in WBS

1.Project Planning (2 weeks)

1.1 Define Project Scope and Requirements (1 week)

1.2 Develop Project Plan and Timeline (1 week)

Req: Task 1.1

1.3 Define End Goal(1 day)

Req: Task 1.1

2.Data Collection and Preparation(15 months)

2.1 Determine Relevant information to give A.I. (2 weeks)

Req: Task 1

2.2 Collect and Process Data (1 year)

Req: Task 2.1

2.2.1 Clean Data (3 months)

2.3 Label Data (3 months)

Req: Task 2.2

3.Artifical Intelligence Development and Training (13 months)

3.1 Develop A.I. Model (4 months)

Req: Task 2

3.2 Select Machine Learning Algorithm (1 week)

Req: Task 2

3.3 Train Model with Machine Learning Algorithm (5 months)

Req: Task 3.1 and Task 3.2

3.4 Test A.I. for Accuracy (6 months)

Req: Task 3.3

4.Implimentation and Release (1 Month)

4.1 Develop API for A.I. Output (1 month)

Req: Task 3

4.2 Create Documentation and User Manual (2 weeks)

Req: Task 3

5. Release to the public

Req: Task 4

1. Listing the Tasks
   * List all tasks
   * Put tasks in order
   * Add a description
   * Decide how long each task takes
   * Decide which tasks must go first
2. Estimate task duration
3. Create Gantt Chart { <https://ganttpro.com/> }

<https://app.ganttpro.com/shared/token/de06486cfbc8cc562eb292277f4c695febfaa150a3904d3221da0bad0f2b2360/1051827>

Step 2: Identify Task Patterns PERT Chart

1. Create PERT Chart

<https://lucid.app/lucidchart/07f91b28-f700-4a1f-a548-bda47837fc68/edit?viewport_loc=-406%2C71%2C3044%2C1370%2C0_0&initationId=inv_7e245ffd-a482-4729-951a-6175fa5f9398>

Step 3: Critical Path

1. Calculate the Critical Path
2. Define Project Scope and Requirements (1 week)
3. Develop Project Plan and Timeline (1 week)
4. Determine Relevant Information to give A.I. (2 weeks)
5. Collect and Process Data (1 year)
6. Label Data (3 months)
7. Develop A.I. Model (4 months)
8. Select Machine Learning Algorithm (1 week)
9. Train Model with Machine Learning Algorithm (5 months)
10. Test A.I. for Accuracy (6 months)
11. Develop API for A.I. Output (1 month)