ADTA 5770: Generative AI with LLM
Semester Project – Individual Submission Portfolio

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1. Overview

The semester project aims to develop a knowledge-based Question-Answer and Search System. The project is done using the Cloud Integrated Development Environment (IDE) System (CIDES) provided by Google Cloud Platform (GCP) Vertex Ai services.

Students work on the project in groups throughout the semester to complete all the project assignments. At the end of the semester, each student must also submit their individual semester project submission portfolio in addition to the group submission.

2. Semester Project: Submissions and Grading

2.1 Group submissions

Groups have worked on the semester project throughout the semester. At the end of the semester, the group must submit its Semester Project: Group Submission Portfolio for gradings.

The same semester project group grade will be assigned to all group members.

2.2 Individual submissions

In addition to the group submission, each student must submit an individual semester project submission portfolio.

2.3 Semester Project: Grading

The **final semester project grade** assigned to each student **comprises two grading components**:
--) 1: **Group** semester project grades: **50%**
--) 2: **Individual** semester project grades: **50%**

3. Individual Student Submission Portfolio

Each student must submit the following documents as the items of its group submission portfolio:

1. Semester project: CODE
    a. Jupyter Notebook 1: PHASE 1 – PHASE 4
    b. Jupyter Notebook 2: PHASE 1 – PHASE 9
    c. Jupyter Notebook 3: PHASE 1, 2, 3, and PHASE 10 (Clean up the system)

IMPORTANT NOTES:
*--) To be accepted, the group must **run code in every cell** of a notebook to show the results.*

2. Semester project: Q&A Search System: Questions (Prompts) and Responses
    a. Make a list of 20 questions about the contents of the knowledge base.
        i. There are 2 "NOT FOUND" questions among the 20 questions.
    b. Run the system, ask the questions, one by one, and get responses for each question
    c. Evaluate the accuracy and effectiveness of each response
    d. Submit all the questions, responses, and evaluation scores as required using a **template**

3. Semester project: Individual Final Report
    a. Each student submits the individual **project final report** using a provided **template**

4. Individual Submission Portfolio: Grading (100 Points)

1. Semester project: CODE: **30 Points (three notebooks)**
    a. Jupyter Notebook 1: PHASE 1 – PHASE 4 → **10 Points**
    b. Jupyter Notebook 2: PHASE 1 – PHASE 9 → **10 Points**
    c. Jupyter Notebook 3: PHASE 1, 2, 3, and PHASE 10 → **10 Points**

IMPORTANT NOTES:
*--) To be graded, the group must **run code in every cell** of a notebook to show the results.*

2. Questions (Prompts) and Responses: **20 Points (1 Point/Question& Response)**
3. Response evaluation using the provided 5-level Likert Scale: **40 Points (2 Point/Response)**
4. Semester project: Individual Final Report: **10 Points**

5. HOWTO Submit

Each student must create a sub-folder, named as <first>_<last name>, in the OneDrive group folder. The student must submit their individual submission portfolio by uploading all required documents and materials to the sub-folder.

After the student has submitted the individual semester project portfolio, they must inform the instructor about the submission by emailing the instructor (Thuan.Nguyen@unt.edu).

Due date & time: 8:00 AM – Monday 05/05/2025

IMPORTANT NOTES:

*--) Every group member **must attend** the **FINAL CODE REVIEW** on **Monday 04/28/2025** to get credits for both group and individual gradings.*