IT4020 – Modern Topics in IT

Semester 1, 2025

Group Assignment 1: Investigating an AI Tool

Objective:

The objective of this group assignment is to conduct an in-depth investigation of an AI tool, exploring its development, functionality, potential applications, and limitations. Your team will analyze how the tool works, its underlying technology, and its broader impact.

Instructions:

1. **Select an AI Tool:** Choose an AI tool that your group finds interesting. Examples include ChatGPT, Google Gemini, IBM Watson, Grammarly, Midjourney, or any AI-powered application used in industry or education.

2. **Investigation Criteria:** Your investigation should cover the following aspects:

   - **Overview of the AI Tool:** Name, purpose, and key features.

   - **Technology Behind It:** What AI techniques, machine learning models, or frameworks are used?

   - **User Experience:** Is it intuitive and accessible? What are its design strengths and weaknesses?

   - **Performance & Reliability:** How well does the tool function in real-world scenarios?

   - **Ethical Considerations:** Are there biases, privacy issues, or other ethical risks?

   - **Applications & Impact:** Where is the tool being used, and how is it affecting industries or society?

3. **Presentation:**

   - Prepare a 5-minutes presentation summarizing your key findings.

o   You can include visual aids like slides, charts, or demonstrations of the tool.

Submission Details:

- **Presentation Format:** PowerPoint or Google Slides.

- **Deadline:** on or before 25th of February 2025 – 11.55 pm

Evaluation Criteria

Your group's work will be assessed based on:

- **Depth of Investigation (30%)** – How well the tool is analyzed in different aspects.

- **Clarity & Organization (20%)** – How well-structured and articulated the report is.

- **Use of Evidence (20%)** – Use of examples, comparisons, and references.

- **Presentation Quality (20%)** – Effectiveness and engagement of the presentation.

- **Team Collaboration (10%)** – Equal contribution and teamwork.

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