



AI Research Assignment 3 Guidelines

- **Course:** Artificial Intelligence (ITCS4312)
- **Lecturer:** Shadia Yahya Baroud
- **Assignment Title:** Research on Emerging Trends in AI

- **Objective:**

This assignment aims to enhance students' understanding of cutting-edge AI techniques, foster critical thinking and develop research and presentation skills. Students will explore recent advancements in AI, analyze their impact and present their findings.

- **Assignment Details:**

1. **Topic Selection:**

- Choose a recent AI advancement or application from the following areas:
 - **Machine Learning (ML)**
 - **Deep Learning (DL)**
 - **Natural Language Processing (NLP)**
 - **Computer Vision**
 - **Reinforcement Learning (RL)**
 - **Ethical AI and Bias in Algorithms**

2. **Report Requirements:**

- **Length:** 5 pages (excluding references, diagrams and appendices)
- **Format:**
 - **Font:** Times New Roman, 12pt
 - **Spacing:** 1.5 line spacing
 - **Citations:** Use APA format for references.
- **Sections to Include:**
 1. **Introduction:** Define the problem and the importance of the AI technique.
 2. **Literature Review:** Summarize key research papers, frameworks and technologies related to the topic.



3. **Analysis:** Discuss how the chosen AI technique improves upon traditional methods. Include any performance metrics or case studies if applicable.
4. **Applications:** Describe real-world use cases and industries where this AI technique is applied.
5. **Ethical Considerations:** Address potential biases, privacy concerns, or societal impacts.
6. **Conclusion:** Summarize key findings and propose future directions.

3. Presentation:

- Prepare a **15-minute presentation** summarizing your research findings.
- Use **PowerPoint, Canva or Google Slides** with visual aids like graphs, charts and diagrams.
- Ensure clarity, conciseness and professional delivery.

4. Use of AI Tools:

- If you utilize any **AI tools** (such as ChatGPT, Grammarly or other AI-assisted writing tools) for research, writing or presentation, you must **clearly specify** which tools were used and how they contributed to your work.
- Failure to disclose the use of AI tools may result in deductions from your final grade.

- Submission Details:

- **Deadline:** **TBD**
- **Submission Format:** Submit both the **PDF report** and **presentation slides** on the course platform.
- **Late Submissions:** Late submissions will incur a penalty unless prior approval is granted.

- Grading Criteria:

Criteria	Weight
Research Depth	30%
Critical Analysis	25%
Clarity and Structure	15%
Presentation Quality	15%
Citations & References	10%
Originality	5%



- **Additional Notes:**

- Collaborations are allowed in the form of peer discussions, but **each student must submit an individual report.**
- Plagiarism will result in disqualification. Ensure all sources are properly cited.

For any questions or clarifications, please contact **shadia.baroud.research@gmail.com** or visit during e-office hours.

Good luck and I look forward to seeing your innovative research!