

Herald College



Concepts and Technologies of AI

5CS037

Assignment-02

Term-Paper (Report) on Ethics and AI.

January 2, 2024

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1 Assignment Overview

1.1 About Assignment:

In this Assignment we expect you to write a Report on [Ethical Aspects of Artificial intelligence](#) in not less than **1200±10% words**. Your report must be based on Discussion we made about Ethics and AI in week-7 contents.

1.2 Learning Outcomes:

Learning outcomes can be following but not limited to:

1. What are the perceived ethical and moral issues with AI?
2. What are the general and common ethical principles, guidelines and regulations that can attenuate these ethical and moral issues with AI?
3. What are some of the necessary features and characteristics of an ethical AI?
4. How to adhere to the ethics of AI to build ethical AI?

2 Assignment Details and Submission Guidelines

2.1 Assignment Details:

Due	Marks	Submission	Number of Words
Jan-21st, 15:00 NST.	20	A .pdf file with Plagiarism Report.	1200±10%

2.2 Plagiarism and AI Generated Content

Plagiarism of more than 20% and any AI generated content found in the report will be reported for academic misconduct. Thus we highly encourage you to submit your original work.

2.3 Submission Guidelines:

The Final Date for submission is: **21 Jan**

No Late submissions are allowed.

2.3.1 Naming Conventions:

You are supposed to follow naming conventions strictly any file not following the naming conventions will be marked "0".

File Name: WLVID_FullName(firstname+last).pdf

Example: 00000_ABC Sharma.pdf

2.3.2 What and Where to Submit?

- **What to submit?**

You are expected to submit a PDF file with valid plagiarism score named after following naming convention.

Please print a Plagiarism report generated from Canvas and ask your respected instructor to sign it for you. {Plagiarism allowed: 20%}.

- **Where to Submit?**

Designated Portal Opened at Canvas or as instructed by your instructor.

3 Tasks and Marks Division

3.1 Abstract [100-150-Words]. [2]

An abstract must be fully self-contained and make sense by itself, without further reference to outside sources or to the actual paper. It highlights key content areas, your research purpose, the relevance or importance of your work, and the main outcomes.

3.2 Introduction [250-300-Words]. [5]

In this section you should answer the following questions:

1. What is Ethics?
2. What is Ethics of AI and Ethical AI?
3. Why should we build Ethical AI?

3.3 Review of Major ethical dilemmas and moral questions associated with AI [250-300-Words].[4]

First Select any one topic from following list of topics:

- **AI Enabled Discrimination.**

- Investigate the impact of bias in AI algorithms and the ethical considerations associated with fairness.
- Discuss the ethical implications of black-box algorithms and the need for transparent, explainable and interpretable AI.

- **Ethical Considerations in AI based Decision making, there accountability and Privacy preservation.**

- Analyze the ethical dilemmas surrounding AI-based decision-making in areas such as healthcare, finance, and criminal justice.
 - Explore the concepts of algorithmic accountability and responsibility of AI developers and organizations for the outcomes of their systems.
 - Investigate the ethical implications of AI systems on individual privacy.
- **AI and Work.**
 - Discuss ethical considerations in AI-generated content including art, music and literature. Explore issues related to copyright, attribution and ownership.
 - Examine the ethical considerations related to the impact of AI on employment. Discuss potential solutions to address job displacement.
 - **AI and Social Good.**
 - Analyze the environmental impact of training large AI models and the ethical considerations related to sustainability.
 - Explore the need for international cooperation and governance frameworks to address ethical concerns in AI on global scale. Discuss the challenges and potential solutions.
 - Investigate how AI can contribute to or exacerbate existing social inequalities. Explore strategies for ensuring that AI systems promote social Justice.

In this section, For any of the topic above discuss what do you think are some major ethical and moral debate associated with the topics can be.

Please try to be original and give your own understandings.

3.4 Initiatives in the field of Ethical AI [150-200-Words]. [3]

In this section you should discuss various National and International initiatives taken to build fair, explainable and ethical AI in association with the topic selected. You can also discuss the ethical harms and concerns tackled by these initiatives.

3.5 Generic Framework/Principle for the development and use of AI:[200-250-Words]. [4]

Based on your Research in section 3.3 and 3.4, write what framework they suggested on building fair, explainable and ethical AI.

3.6 Discussion [100-150-Words]. [2]

Based on your research and report above, provide your view on building ethical AI.

4 After Submission

Once you made your final Submission, Please save and download the Plagiarism report and request your Instructor to sign it.

**** GOOD LUCK*****