

Objective

- You are asked to keep up with current AI applications in the industries, by analyzing published papers and summarizing it concisely in your own words.
- If statistical software application is required as part of this project, you are expected to use R here.
- Please do not use Generative AI for this part. Offending group will get automatic zero.

Due Dates and Mark Breakdown

Part	Item	Weight	Due Date	Format
I	Write-Up or Report	10%	Sun June 1 st By 11:59 pm	Word
II	Data Set			Excel

Research Paper Source

- **Source:** Find a recent research paper from one of the following websites: (1) **Frontiers** (<https://www.frontiersin.org/>), (2) **Nature** (<https://www.nature.com/>), (3) **PubMed** (<https://pubmed.ncbi.nlm.nih.gov/>), and (4) **Mendeley Data** (<https://data.mendeley.com/>)
- **Important note:** Make sure you have access to the data set of the selected paper.
- **Topic:** It could be about any area of topic (see suggestions below) but it must have Machine Learning (ML) and/or Artificial Intelligence (AI) application in it.
- **Suggestions:** Health care (cancer, Alzheimer's, ALS, diabetes, obesity, heart disease etc.), agriculture, business, social media etc.
- **Timeline:** from 2022 to now (2025)

Part I: Write-Up or Report [10% = 100 points]

- Here is the rubrics:

Section	Details	Points
1. Background Information	<ul style="list-style-type: none"> • Reason of picking this research paper, what you want to accomplish etc. • Source of the research paper, like name of the journal, year/month of the publication etc. 	5
2. Methodology	<ul style="list-style-type: none"> • Brief summary of the sampling method (if any) and method of data collection 	10
3. Executive Summary	<ul style="list-style-type: none"> • High-level summary of the entire research paper • Reference to output (tables or graphs) in the Appendix, only if needed 	50
4. Page & Word Count Limitations	<ul style="list-style-type: none"> • Page limits: 1 to 2 pages • Word limits: 500 to 1000 words 	5
5. Presentation & Styles	<ul style="list-style-type: none"> • Professional look, pleasant to read/follow, free of grammatical or spelling mistakes 	15
6. Appendix (unlimited pages)	<ul style="list-style-type: none"> • Create all relevant output (tables or graphs) yourself and include the R codes, if applicable 	10
7. Data Set	<ul style="list-style-type: none"> • Submit the data set of the research paper • Make sure it is a cleaned data set 	5