**Machine Learning for Human Intelligence**

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Research Article

Main Title of the Manuscript

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**Article History**

**Academic Editor: Editor Name**

**Abstract**

Authors must provide a single paragraph abstract not exceeding **200 words**. For research articles, the abstract should present a clear and

Submitted: Month DD, concise overview of the study. We strongly encourage the use of a **struc-**

YYYY

Revised: Month DD, YYYY Accepted: Month DD, YYYY

**Keywords:**

**tured style without headings**, covering the following elements: (1) **Background**: Place the research question in a broader context and clearly state the purpose of the study; (2) **Methods**: Briefly describe the key methods, datasets, or approaches used; (3) Results: Summa- rize the main findings with quantitative or qualitative highlights; and

Keyword 1, Keyword 2, Key- (4) **Conclusions**: Present the core interpretations or implications of word 3, Keyword 4, Keyword the work. The abstract must be an **objective summary**, accurately

5. reflecting the content of the article. It should not include results that are absent from the main text, nor should it exaggerate or overstate the conclusions. Authors are encouraged to write abstracts that are **accessible to a broad scientific audience**, avoiding jargon while maintaining technical accuracy.

# Introduction

The **Introduction** should place the study in a broad scientific and technical context, clearly highlight- ing its significance and relevance. Authors should define the **purpose of the work** and explain why it is important within the scope of Artificial Intelligence, Machine Learning, Data Science, or related fields. The current state of the research area must be carefully reviewed, citing **key and recent publications** to establish the background [[1].](#_bookmark1) Where applicable, authors are encouraged to highlight **controversial perspectives, competing approaches, or diverging hypotheses** to provide a bal- anced scholarly context. The introduction should also **clearly state the main aim of the study** and briefly preview the **principal findings or contributions**. Authors are strongly advised to make the introduction accessible to a **broad scientific audience**, including researchers outside their immediate field, by avoiding unnecessary jargon and providing clear explanations of technical terms.

# Related Work

The field of AI has witnessed significant developments over the past decades, with researchers exploring various approaches to address [[2].](#_bookmark2) The existing literature can be broadly categorized into different do- mains, each offering distinct perspectives and methodological contributions to the field. Recent trends have moved towards combining multiple methodologies to leverage their complementary strengths [[3].](#_bookmark3)

# Materials and Methods

The **Materials and Methods** section should be described in sufficient detail to enable other re- searchers to **replicate the work** and build upon the published results. Authors must ensure that all **materials, datasets, computer code, algorithms, and protocols** associated with the study are made available to readers upon publication, unless subject to justified restrictions. Any limitations regarding the availability of materials or data should be disclosed at the time of submission.

New methods, algorithms, and computational protocols should be **described comprehensively**, while established methods may be summarized concisely with appropriate references. Manuscripts reporting large datasets must specify the **repository or database** where the data has been deposited and include relevant accession numbers or links. If accession numbers are not available at submission, authors should indicate that they will be provided during peer review and must supply them prior to publication [[4].](#_bookmark4)

For studies involving **human participants, patient data, or animals**, authors must clearly state the ethical approval obtained, including the **name of the approving authority** and the cor- responding approval code. Studies must comply with institutional, national, and international ethical standards. This section should be written with precision and transparency, ensuring reproducibility, proper attribution of methods, and clear documentation of computational experiments.

# Headings and Subsections

Authors should organize their manuscripts using a clear and consistent heading structure:

* Section titles should be numbered (e.g., 1 Introduction, 2 Materials and Methods).
* Subsections should be numbered hierarchically (e.g., 3.1 Subsection, 3.1.1 Subsubsection).
* Avoid excessive fragmentation of the text; only create subsections when necessary for clarity.

# Lists

Lists may be formatted as either bulleted or numbered, depending on the context. Bulleted lists should be used for unordered items:

* First bullet;
* Second bullet;
* Third bullet.

Numbered lists should be used when the order of items matters:

1. First item;
2. Second item;
3. Third item.

Text continues after the list on a new line, following standard paragraph formatting.

# Figures and Tables

General Requirements:

* Figures and tables must be of high quality, clear, and legible, suitable for both print and online publication.
* All figures and tables should be numbered consecutively in the order they are cited in the text (e.g., Figure 1, Figure 2, Table 1, Table 2).
* Each figure and table must be accompanied by a concise, descriptive caption placed below figures and above tables.
* Authors must ensure that figures and tables are self-explanatory without requiring reference to the main text.

## Figures

****

Figure 1: This is a figure, Schemes follow the same formatting. If there are multiple panels, they should be listed as: (a) Description of what is contained in the first panel. (b) Description of what is contained in the second panel. Figures should be placed in the main text near to the first time they are cited. A caption on a single line should be centered.

* Acceptable file formats: TIFF, JPEG, PNG (minimum 300 dpi resolution).
* Multi-panel figures should be labeled clearly (e.g., Figure 1a, Figure 1b).
* Use color only when it is essential for clarity; otherwise, grayscale is preferred.
* Avoid including results in the figure caption that are not explained in the text.

## Tables

Table 1: This is a table caption.

|  |  |  |  |
| --- | --- | --- | --- |
| **Title 1** | **Title 2** | **Title 3** | **Title 4** |
| Data | Data | Data | Data |
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* Tables should be editable (created using the word processor’s table function), not embedded as images.
* Use horizontal lines only (no vertical lines) to improve readability.
* Each column should have a clear, concise heading.
* Footnotes may be used for explanatory details, indicated with superscript letters (e.g., a, b, c).

**Citations in Text**

* Figures and tables must be referred to in the text, e.g., “as shown in Figure 2” or “see Table 1”.

## Pseudocode and Algorithms

This section demonstrates how to include pseudocode and algorithms in your paper.

**Algorithm 1** Example Machine Learning Algorithm

**Require:** Input data *X* Rn*×*d, labels *y* 0*,* 1 n

∈ ∈ { }

**Ensure:** Trained model parameters *θ*

1: Initialize *θ* random values

←

2: Set learning rate *α* 0*.*01

←

3: Set maximum iterations *T* 1000

←

4: **for** *t* = 1 to *T* **do**

5: Compute predictions: *y*ˆ *f* (*X*; *θ*)

←

6: Compute loss: *L* CrossEntropy(*y, y*ˆ)

←

7: Compute gradients: θ*L*

∇

8: Update parameters: *θ θ α* θ*L*

← − ∇

9: **if** convergence criteria met **then**

10: **break**

11: **end if**

12: **end for**

13: **return** *θ*

## Mathematical Equations

This is an inline equation: *E* = *mc*2.

−*b* ± √*b*2 − 4*ac*

*x* =

2*a*

(1)

*f* (*x*) = *x*2 + 2*x* + 1*g*(*x*) = (*x* + 1)2 (2)

*A* = *πr*2*C* = 2*πr* (3)

As seen in Equation [1,](#_bookmark0) the quadratic formula is essential.

# Results

The **Results** section should present a clear, concise, and precise description of the study’s findings. Authors may organize this section using **subheadings** where appropriate to improve readability. The results must be presented **objectively**, without interpretation beyond what is directly supported by the data. Figures, tables, and supplementary materials should be used to clearly illustrate the findings, and all visual elements must be accompanied by descriptive captions.

Authors should ensure that the reported results are consistent with the methods described and that all data analyses are transparent and reproducible. Any statistical analyses performed should be reported with sufficient detail, including significance levels, confidence intervals, and measures of variability where relevant.

The **experimental or computational conclusions** that can be drawn directly from the re- sults should be briefly indicated, while broader interpretation and context should be reserved for the **Discussion** section.

# Discussion

The **Discussion** should provide a thoughtful interpretation of the results, placing them in the context of existing research and highlighting their significance. Authors are encouraged to explain how the findings advance the understanding of **machine learning, artificial intelligence, data science, and human intelligence**, and to compare their results with prior studies in the field.

This section should not simply restate the results but should explore their **implications, limita- tions, and potential applications**. Where appropriate, authors should address unresolved questions, highlight the novelty of their contributions, and indicate how their work may influence future research or practice.

Authors are also encouraged to discuss **alternative explanations, controversial perspectives, or diverging hypotheses**, and to acknowledge the **strengths and limitations** of their study with transparency. Broader societal, ethical, or interdisciplinary implications of the work may also be considered where relevant. The Discussion should conclude by summarizing the key insights gained from the study, clarifying how they contribute to the field, and outlining **directions for future** **research**.

# Conclusion

The **Conclusions** section should provide a concise summary of the main findings and their signifi- cance. Authors are expected to highlight how the study contributes to advancing knowledge in **ma- chine learning, artificial intelligence, data science, and human intelligence**, emphasizing the originality and impact of the work. This section should avoid repeating details already presented in the Results or Discussion, and instead focus on the **core insights, practical implications, and potential applications** of the research.

Where appropriate, authors may outline**future research directions**, emerging challenges, or opportunities inspired by their findings. Conclusions must remain balanced and objective, avoiding overgeneralization or unsubstantiated claims. The goal is to clearly communicate the **scientific and societal relevance** of the work in a way that is accessible to both specialists and a broader audience.

# Supplementary Materials

Authors may provide supplementary materials that support the main text. Supplementary files should be cited within the manuscript (e.g., Figure S1, Table S1, Video S1). Upon publication, supplementary materials will be made available online at [www.mlhi.org/xxx/s1.](http://www.mlhi.org/xxx/s1)

# Funding

All sources of funding relevant to the research must be declared. Please include one of the following statements:

* “This research received no external funding.”
* “This research was funded by [Name of Funder], grant number [XXX].”
* “The APC was funded by [XXX].”

**Note:** Authors must ensure that funding agency names are provided in their official format. Any inaccuracies may affect compliance with funder reporting requirements.

# Data Availability Statement

Authors must provide details regarding where data supporting the findings can be accessed. This may include links to publicly archived datasets analyzed or generated during the study. If no new data were created or analyzed, authors may state:

* “Data sharing does not apply to this article as no new data were created or analyzed in this study.”

# Acknowledgments

Authors may acknowledge any non-financial support that contributed to the work but is not covered by the author contributions or funding sections. This may include administrative or technical assistance, language editing, or provision of materials.

# Conflicts of Interest

Authors must declare any potential conflicts of interest. If no conflicts exist, please state:

* “The authors declare no conflict of interest.”

If applicable, authors must also disclose the role of funders:

* “The funders had no role in the design of the study; in the collection, analyses, or interpretation of data; in the writing of the manuscript; or in the decision to publish the results.”

# General Requirements

* All references must follow the American Psychological Association (APA), 7th Edition style.
* References should be numbered consecutively only if ordered citations are used; otherwise, they should be listed alphabetically by the surname of the first author.
* Every reference cited in the text must appear in the reference list, and every entry in the reference list must be cited in the text.
* Ensure that references are accurate, complete, and formatted consistently.

# References

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3. Author, A. A., Author, B. B., & Author, C. C. (Year). Title of article. Title of Periodical, vol- ume(issue), pages.
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