



Manuscript Guidelines for Authors

Author Guidelines

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Abstract: This document provides the official manuscript preparation guidelines for authors submitting to the *Bayanika Journal of Artificial Intelligence and Data Science* (BJAIDS). It describes the journal scope, article categories, manuscript structure, formatting requirements, citation and reference style, figure and table preparation, ethical declarations, submission checklist, and production requirements. Authors are expected to use either the official BJAIDS LaTeX template or the official BJAIDS MS Word template and to ensure that the submitted manuscript is complete, readable, traceable, and compliant with publication ethics.

Keywords: Author guidelines, Manuscript preparation, BJAIDS, Artificial intelligence, Data science, Publication ethics

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1. Journal Scope

The *Bayanika Journal of Artificial Intelligence and Data Science* (BJAIDS) publishes scholarly works in artificial intelligence, data science, machine learning, computational intelligence, intelligent systems, explainable artificial intelligence, data analytics, decision support systems, and related interdisciplinary applications. Manuscripts should demonstrate clear scientific contribution, methodological soundness, technical clarity, and relevance to the development or application of artificial intelligence and data science.

Suitable submissions may include theoretical studies, algorithmic developments, empirical studies, applied data science research, benchmark comparisons, case studies, systematic reviews, and reproducible computational frameworks. Manuscripts that only apply standard tools without a clear research question, methodological contribution, empirical insight, or practical relevance may be returned before peer review.

2. Article Categories

BJAIDS accepts several types of manuscripts. Authors should select the article type that best reflects the nature of the submission.

Table 1. Main manuscript categories accepted by BJAIDS

Article Type	Description
Research Article	Full-length original research presenting a clear problem, method, experiment or analysis, results, discussion, and contribution.
Review Article	Critical and systematic synthesis of an established or emerging research area. The review should identify trends, gaps, limitations, and future directions.
Short Communication	Concise report of a focused methodological idea, early finding, technical note, or limited but meaningful empirical result.
Case Study	Application-focused manuscript demonstrating the use of AI or data science methods in a specific domain with clear analytical value.
Dataset or Software Article	Manuscript describing reusable datasets, tools, software, repositories, or computational resources with sufficient documentation and accessibility.

3. General Formatting Requirements

Authors must prepare their manuscripts using the official BJAIDS LaTeX template or the official BJAIDS MS Word template. Manuscripts produced by converting a PDF into Word or by manually imitating the layout without using the template may contain unstable spacing, broken captions, inconsistent styles, or uneditable objects; such files may be returned for technical correction.

The manuscript must be written in clear academic English. Authors may use either British or American English, but one style must be applied consistently throughout the manuscript. The text should be concise, precise, and free from unnecessary repetition. Technical terms should be used consistently, and abbreviations should be defined at first use.

The recommended formatting principles are as follows:

- Use the official BJAIDS page layout, fonts, heading levels, and caption format.
- Do not manually change margins, page size, header, footer, or journal masthead.
- Do not submit a scanned manuscript or a manuscript containing text as images.
- Use editable equations, tables, and figures whenever possible.
- Ensure that all figures, tables, equations, algorithms, and references are cited in the manuscript body.
- Check spelling, grammar, reference completeness, figure resolution, and author metadata before submission.

4. Required Manuscript Structure

A standard BJAIDS research article should contain the following elements in order.

4.1. Title

The title should be concise, specific, and informative. It should reflect the main method, object of study, or contribution. Avoid overly broad titles such as “An AI Approach” or promotional titles that do not specify the research contribution. The title should not contain unexplained abbreviations.

4.2. Authors, Affiliations, and Corresponding Author

Author names must be written consistently across the submission system and manuscript file. Each author should provide institutional affiliation, city, country, and email address. The corresponding author must be clearly marked. ORCID iD is strongly recommended to support author identification and indexing.

4.3. Abstract

The abstract should be written as one coherent paragraph of approximately 150–250 words. It should briefly state the background, objective, method, data or experiment, main results, and contribution. The abstract should not contain citations, equations, tables, figures, or undefined abbreviations.

4.4. Keywords

Provide four to six keywords. Keywords should be specific and should help indexing services identify the research topic. Avoid repeating only generic terms that already appear in the journal title unless they are central to the manuscript.

4.5. Main Text

A full research article should normally include the following major sections:

1. **Introduction:** background, motivation, research gap, objective, and contribution.
2. **Related Work:** synthesis of previous studies and clear positioning of the manuscript.
3. **Methodology:** research design, mathematical formulation, algorithm, data processing, and implementation details.
4. **Experiments or Case Study:** dataset, experimental setting, baselines, evaluation metrics, and reproducibility details.
5. **Results and Discussion:** findings, interpretation, comparison with prior work, implications, and limitations.
6. **Conclusion:** concise summary of objective, method, main findings, contribution, limitations, and future work.

5. Mathematical Expressions, Algorithms, Tables, and Figures

5.1. Mathematical Expressions

Equations must be typed using LaTeX or the equation editor in MS Word. Do not insert equations as images. Variables should be defined before or immediately after first use. Number only equations that are cited in the text.

For example, a predictive model may be written as

$$\hat{y}_i = f(x_i; \theta), \quad (1)$$

where $x_i \in \mathbb{R}^d$ is the input vector, θ denotes model parameters, and \hat{y}_i is the predicted output. Authors may refer to this expression as Eq. (1).

5.2. Algorithms

Algorithms should be written clearly and should contain input, output, initialization, main process, and stopping condition where applicable. Avoid describing an algorithm only in narrative form when the method contains sequential computational steps.

5.3. Tables

Tables must be editable, not pasted as images. Each table must have a clear caption, be cited in the text, and use consistent decimal formatting. Table captions in the BJAIDS template are centered. For example, Table 2 shows a simple performance comparison.

Algorithm 1: Example algorithm format for BJAIDS manuscripts**Input:** Dataset X , model parameter θ , maximum iteration T **Output:** Prediction or analytical output \hat{Y}

- 1 Initialize model parameters θ ;
- 2 **for** $t = 1$ **to** T **do**
- 3 Compute model output $\hat{Y}^{(t)} = f(X; \theta^{(t)})$;
- 4 Evaluate the objective function $\mathcal{L}(\theta^{(t)})$;
- 5 Update the model parameter $\theta^{(t+1)}$;
- 6 **return** \hat{Y} ;

Table 2. Example performance comparison

Method	Accuracy	F1-score	AUC
Baseline 1	0.850	0.842	0.901
Baseline 2	0.872	0.865	0.918
Proposed Method	0.901	0.896	0.943

5.4. Figures

Figures must be cited in the text and must have sufficient resolution. Vector formats are preferred for diagrams, charts, and model architectures. Raster images should normally have at least 300 dpi resolution. Avoid screenshots when the original figure can be exported directly from software. Figure captions in the BJAIDS template are centered, as shown in Fig. 1.



Fig. 1. Example figure placement using the BJAIDS logo.

6. Citation and Reference Style

BJAIDS uses a numeric citation style. References are numbered according to the order of first citation in the manuscript body. In LaTeX, authors should use `\cite{}` commands and BibTeX entries. The current template uses the following bibliography style:

```
\bibliographystyle{unsrt}
\bibliography{refs_bjaids}
```

Authors should cite only sources that are directly relevant and actually used in the manuscript. Do not use `\nocite{*}` to force unused references to appear in the reference list. Each reference entry must be complete and traceable, including author name, title, publication venue, year, volume, issue, pages, DOI or URL where available, and access date for online sources where necessary.

References should prioritize peer-reviewed journal articles, conference papers from reputable venues, scholarly books, standards, datasets, and official documentation. Non-scholarly webpages, blogs, and unverified online materials should be avoided unless they are necessary as official data, policy, or software documentation sources.

7. Research Ethics and Publication Integrity

All manuscripts submitted to BJAIDS must follow responsible research and publication practices. Authors are responsible for the originality, accuracy, transparency, and ethical compliance of the submitted work.

7.1. Originality and Plagiarism

The manuscript must be original and must not be under consideration by another journal or conference at the same time. Text, data, figures, tables, code, and ideas taken from other sources must be properly cited. Excessive overlap with previously published work, including the authors' own work, must be clearly justified and disclosed.

7.2. Authorship

All listed authors must have made a substantial contribution to the research. All authors must approve the submitted version and agree to be accountable for the integrity of the work. Individuals who contributed but do not meet authorship criteria may be acknowledged in the acknowledgment section.

7.3. Data, Code, and Reproducibility

Authors should describe datasets, preprocessing procedures, software versions, hyperparameters, evaluation metrics, and experimental settings with sufficient detail. When possible, authors are encouraged to provide data, code, supplementary materials, or repository links to support reproducibility.

7.4. Use of Generative AI Tools

Generative AI tools may be used for language editing, proofreading, formatting assistance, or idea organization, but they must not replace author responsibility. Authors must verify all content, references, formulas, results, and claims. The use of generative AI in scholarly writing should be declared when applicable.

8. Required Declarations

Authors must include the following declaration sections before the reference list, where applicable.

- **Author Contributions Statement:** describe each author's contribution.
- **Conflict of Interest Statement:** declare any financial or non-financial conflict.
- **Funding Declaration:** state funding source and grant number, or declare no external funding.
- **Data Availability Statement:** explain whether data are publicly available, available upon request, restricted, or not applicable.
- **Acknowledgment:** acknowledge non-author support, institutional assistance, or technical support.
- **Declaration of Generative AI in Scholarly Writing:** disclose relevant AI-assisted writing or editing use.

9. Submission Checklist

Before submitting a manuscript to BJAIDS, authors should ensure that all items in Table 3 have been completed.

Table 3. Author submission checklist

No.	Checklist Item
1	The manuscript uses the official BJAIDS LaTeX or MS Word template.
2	The title, authors, affiliations, emails, and corresponding author information are complete.
3	The abstract is concise and includes objective, method, main result, and contribution.
4	Four to six keywords are provided.
5	All figures, tables, equations, and algorithms are cited in the text.
6	All references cited in the text appear in the reference list, and all references in the list are cited in the text.
7	Ethical declarations, funding statement, conflict of interest statement, and data availability statement are included.
8	The manuscript has been checked for grammar, formatting consistency, and similarity.
9	Figures have sufficient resolution and tables are editable.
10	Supplementary files, datasets, or code repositories are provided when applicable.

10. Peer Review and Production Process

Submitted manuscripts are screened for scope, template compliance, readability, originality, and ethical completeness. Manuscripts that pass initial screening may be assigned to editors and peer reviewers. Authors may be asked to revise

the manuscript based on reviewer comments. Acceptance is based on scientific contribution, methodological soundness, clarity of presentation, ethical compliance, and relevance to the journal scope.

After acceptance, the manuscript may undergo copyediting, layout checking, metadata verification, DOI preparation, and final proofing. Authors are responsible for checking proofs carefully and responding to production queries within the requested time.

11. Contact and Journal Website

Authors should consult the BJAIDS journal website for the most recent information regarding scope, submission policy, publication ethics, article processing charges, indexing status, and editorial contact details. The journal homepage is:

<https://bayanika.org/index.php/bjaids>

For technical issues related to the template, authors should ensure that all template files, image files, bibliography files, and class files are placed in the same working folder before compilation.