

A Concise and Informative Paper Title

First Author^{1*}, Second Author², Third Author¹, Fourth Author²

¹Department of Computer Science, University A, Country

²Department of Artificial Intelligence, University B, Country

*Corresponding author: `author@email.com`

Abstract

The abstract should summarize the research problem, the proposed methodology, the experimental setup, the main results, and the principal conclusions.

The abstract should contain between 150 and 250 words.

Avoid citations, equations, and undefined abbreviations.

Keywords

Artificial Intelligence, Machine Learning, Deep Learning, Data Science, Applied Computing.

1. Introduction

The introduction should include

- motivation;
- problem statement;
- related challenges;
- paper contributions;
- paper organization.

2. Related Work

Review previous studies and clearly explain how your work differs from existing approaches.

Example citation:

Artificial Intelligence has demonstrated remarkable performance in many application domains [1].

3. Methodology

Describe the proposed approach in sufficient detail to enable reproducibility.

Typical subsections include

- Dataset
- Data preprocessing
- Feature engineering
- Proposed model
- Evaluation protocol

3.1. Mathematical Expressions

Mathematical notation should follow standard scientific conventions.

Variables should be italic.

Vectors should be bold.

Matrices should be uppercase bold.

Display important equations separately.

Example:

$$Accuracy = \frac{TP + TN}{TP + TN + FP + FN} \quad (1)$$

Reference equations as
Equation (1).

3.1.1. Matrices

$$\mathbf{A} = \begin{bmatrix} 1 & 2 & 3 \\ 4 & 5 & 6 \\ 7 & 8 & 9 \end{bmatrix}$$

3.1.2. Vectors

$$\mathbf{x} = [x_1, x_2, \dots, x_n]^T$$

3.1.3. Optimization

$$\begin{aligned} \min_{\mathbf{w}} \quad & L(\mathbf{w}) \\ \text{s.t.} \quad & \mathbf{w} \geq 0 \end{aligned} \quad (2)$$

3.1.4. Piecewise Functions

$$f(x) = \begin{cases} 0, & x < 0, \\ x^2, & x \geq 0. \end{cases}$$

3.1.5. Multi-line Equations

$$Loss = \sum_{i=1}^N (y_i - \hat{y}_i)^2 \quad (3)$$

$$+ \lambda \|\mathbf{w}\|_2^2 \quad (4)$$

3.1.6. Notation

Use

- italic variables (x, y, z);
- bold vectors ($\mathbf{x}$);
- uppercase bold matrices ($\mathbf{A}$);
- predefined commands for $\sin$, $\cos$, $\log$, $\exp$, $\max$.

3.2. Algorithms

Algorithms should be numbered consecutively.

Algorithm 1 Example Training Procedure

```
Load dataset
Normalize features
Train model
Validate model
Evaluate performance
return Best model
```

4. Experimental Results

Clearly describe

- Hardware
- Software
- Hyperparameters
- Evaluation metrics
- Statistical analysis

4.1. Tables

Tables should be centered.

Captions appear above tables.

Table 1. Classification Performance

Model	Accuracy	Precision	Recall
Random Forest	0.94	0.95	0.93
SVM	0.91	0.90	0.92
XGBoost	0.96	0.97	0.95

4.2. Figures

Figures should be centered.

Captions appear below figures.

5. Discussion

Discuss

- interpretation;
- comparison with previous work;
- strengths;
- limitations;
- practical implications.

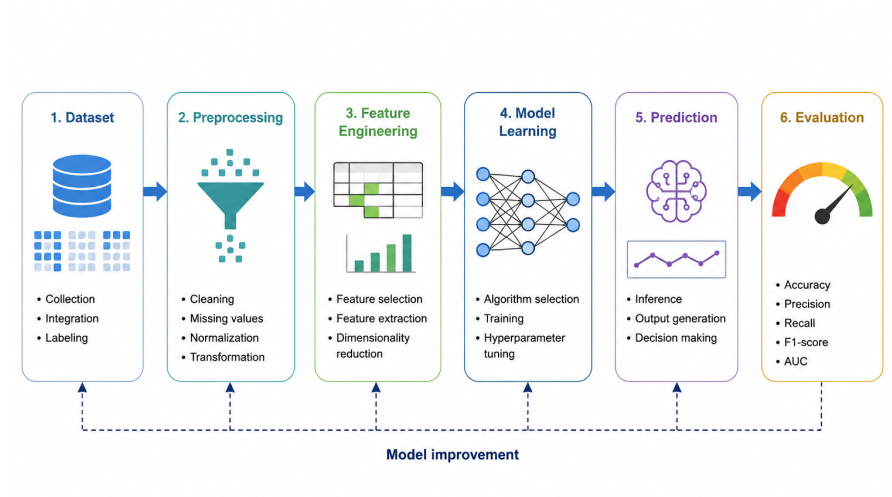


Figure 1. Example figure.

6. Conclusion

Summarize

- main contributions;
- principal findings;
- future work.

Acknowledgment

This section is optional.

References

- [1] M. Bekkouche, “Sample,” *Journal*, 2026.