ORIGINAL ARTICLE

Computer Vision

Title of the Article in Sentence Case: Clear, Specific and Informative

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Abstract

Background: State the problem and why it matters in one or two sentences. Methods: Describe the data, the model or approach, and how it was evaluated. Results: Give the main quantitative findings with the metrics used. Conclusion: Summarise what the results mean and what remains to be done. The abstract should be a single paragraph of no more than 250 words and should not contain citations.

Keywords
Keyword one, Keyword two, Keyword three, Keyword four, Keyword five

Highlights

- First key finding of the study, written as a short sentence.
- Second key finding, method or data contribution.
- Third key finding, with the main result where possible.

1 | INTRODUCTION

This template shows the layout of articles in *Artificial Intelligence Confluence*. Write the introduction to explain the problem, review the most relevant work briefly and state the aim of the study. Deep learning has changed many areas of artificial intelligence [1], and residual networks [2] and attention-based models [3] are now common baselines.

Paragraphs after the first are indented automatically. Cite several sources together as [1–3]; the list is sorted and compressed. End the introduction with the contributions of the paper:

- a first contribution of the study;
- a second contribution of the study;
- a third contribution of the study.

2 | RELATED WORK

Summarise earlier studies and explain how the present work differs from them. Use subsections where they help the reader.

3 | MATERIALS AND METHODS

3.1 | Dataset

Describe the dataset, its source, licence and size, and how it was split into training, validation and test sets (Table 1).

TABLE 1 Composition of the example dataset

Class	Train	Validation	Test
Class A	700	150	150
Class B	560	120	120
Class C	420	90	90
Total	1,680	360	360

3.2 | Proposed model

Figure 1 gives an overview of the method. Replace the diagram with your own figure: upload the image file to the project and include it with `\includegraphics`, setting the width to `\linewidth` for one column or `\textwidth` inside `figure*` for both columns.

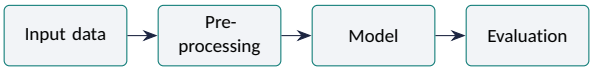

FIGURE 1 Overview of the proposed method. Captions start with a short title and may continue with a description.

Number equations that are referred to in the text, as in Equation (1):

$$p_k = \frac{\exp(s_k)}{\sum_{j=1}^{K} \exp(s_j)}, \qquad k = 1, \dots, K, \tag{1}$$

where s_k is the score of class k and K is the number of classes.

3.3 | Training setup

Report the software, hardware and hyper-parameters, for example the optimiser, learning rate, batch size, number of epochs and any regularisation such as dropout [4], so that the experiments can be repeated.

4 | RESULTS

Present the results in tables and figures and describe the main findings in the text. Wide tables or figures can span both columns with the `table*` and `figure*` environments.

5 | DISCUSSION

Interpret the results, compare them with earlier work and state the limitations of the study.

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6 | CONCLUSION

State the main conclusions and possible directions for future work.

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AUTHOR CONTRIBUTIONS

State the contribution of each author, for example: First Author: study conception and design, analysis; Second Author: data collection; Third Author: manuscript preparation. All authors read and approved the final manuscript.

CONFLICT OF INTEREST

The authors declare no conflict of interest.

FUNDING

This research received no external funding.

DATA AVAILABILITY

Data will be available on request.

INFORMED CONSENT

Not applicable.

USE OF GENERATIVE AI

The authors declare that no generative artificial intelligence tools were used to conduct the study, generate the scholarly content, interpret the results, or formulate the conclusions presented in this article.

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