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ABSTRACT

In this sample-structured document, neither the cross-linking of float elements and bibliography nor metadata/copyright information is available. The sample document is provided in “Draft” mode and to view it in the final layout format, applying the required template is essential with some standard steps.

These steps, which should require generation of the final output from the styled paper, are mentioned here in this paragraph. First, users have to run “Reference Numbering” from the “Reference Elements” menu; this is the first step to start the bibliography marking (it should be clicked while keeping the cursor at the beginning of the reference list). After the marking is complete, the reference element runs all the options under the “Cross Linking” menu.

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∗Article Title Footnote needs to be captured as Title Note

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Some specific values are required to create a standard layout by choosing a template for the journals or proceedings. So once the user chooses one of the template layout styles, the respective Journal or Conference details dialog box (i.e. **journal/conference acronym, DOI, ISBN, copyright, year, etc.**) will appear as a prompt during the Define Template Style functionality. The user should fill these values, after which the template creates the desired layout of the paper. The user can now create a PDF of his/her manuscript using the “*Save as PDF*” option.

If the user is adding any new data, they should make sure to style it as per the instructions provided in previous sections. Carry out the steps for Cross-linking, Fundref data, adding Document History (specific to journal submission), and finally, Manuscript validation and placing the respective metadata (Bibstrip/copyright text)[[1]](#footnote-2) while applying the required template.

Introduction

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Related Work

The updated template, user manuals, samples, and required fonts, all are available at the URL <https://www.acm.org/publications/proceedings-template>. It contains said information for all three versions of MS Word (Windows and 2 versions of Mac). There are also separate links to the user guide, which can be referred to by the user. This URL also contains some useful video links, which describe how to add the template, structure the paper, and generate the layout, in different clips. **Display Formula with Number**

 (1)

**Continuation part of Paragraph Text** The user must style this paragraph in **ParaContinue** style, which follows immediately after the **DisplayFormula** (numbered equation). The **DisplayFormula** style is applied only in case of a numbered equation. A numbered equation always has a number to its right. Insert paragraph text here. **Display Formula without Number**

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1 Proposed Work

Research will follow the following steps:

1. **Research on Problem-Specific Terminology and Trends:**
2. In-depth study of gymnastics-specific terminology and rules.
3. Historical analysis of trends in Men's and Women's Team Artistic Gymnastics.
4. Examination of scoring systems, judging criteria, and recent rule changes.
5. Identification of key performance metrics and their relevance to team success.
6. **Exploratory Data Analysis (EDA):**
7. Comprehensive exploration of the dataset to uncover insights.
8. Identification of patterns, correlations, and outliers in historical gymnastics data.
9. Analysis of seasonal and cyclical variations in athlete performance.
10. Visualization of key EDA findings to inform subsequent modeling.
11. **Model Building:**
12. Development of predictive models tailored to gymnastics team competition.
13. Experimentation with various machine learning and statistical algorithms.
14. Feature engineering to capture athlete strengths, weaknesses, and historical performance.
15. Fine-tuning model parameters for optimal predictive accuracy.
16. **Model Evaluation:**
17. Rigorous evaluation of model performance using cross-validation techniques.
18. Application of relevant evaluation metrics, including accuracy, precision, recall, F1-score, and AUC-ROC.
19. Assessment of models' ability to generalize across different scenarios.
20. Sensitivity analysis to identify influential factors affecting predictions.
21. **Final Visualizations:**
22. Creation of informative and intuitive visualizations.
23. Visualization of predicted outcomes for Men's and Women's Team Artistic Gymnastics.
24. Clear presentation of predicted winners and comparisons of teams.
25. Visual representation of the research findings for stakeholders.

Evaluation

To ensure the accuracy and reliability of our predictive models, we employ a rigorous evaluation process. This process involves assessing the performance of our models, both quantitatively and qualitatively, to determine their effectiveness in making accurate predictions.

**Quantitative Evaluation Metrics:**

**Accuracy:** Accuracy measures the proportion of correctly predicted outcomes among all predictions. It provides an overall assessment of model correctness.

**Precision and Recall:** Precision measures the proportion of true positive predictions among all positive predictions, while recall measures the proportion of true positives among all actual positives. These metrics are particularly useful in assessing the model's ability to identify winners accurately.

**F1-Score:** The F1-Score combines precision and recall to provide a balanced measure of a model's performance. It is especially valuable when dealing with imbalanced datasets.

**Area Under the ROC Curve (AUC-ROC):** AUC-ROC assesses the model's ability to discriminate between winners and non-winners across different probability thresholds. A higher AUC-ROC indicates better discrimination.

**Confusion Matrix:** We analyze the confusion matrix to gain insights into false positives, false negatives, true positives, and true negatives, providing a deeper understanding of model behavior.

Discussion

Conclusion

References

Future work?

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1. The existing Bibstrip data, copyright text and permission block in the sample file are dummy values, so the user needs to provide the correct values required for the submission in the metadata dialog box. [↑](#footnote-ref-2)