My Anomaly Detection Method

Author(s): First Name Last Name
Department Name, Institution Name, Address

Please do not write an introduction to anomaly detection - we will have one introduction at the beginning. Furthermore, please give your method a concise name - it is fine to say ***Concise Name: Longer Name that is More Specific.*** *The length limit is five pages of text (not included references), with fewer pages preferred, and at most one additional page of figures if needed.*

0.1 Method

Please introduce the motivation for your method (not anomaly detection in general), how it works, and how you have implemented it. Please include details about how you trained your algorithms and how you picked your hyperparameters.

0.2 Results on LHC Olympics

We welcome results on any of the black boxes (BBs) as well as the R&D dataset. Please try to minimize any discussion of non-LHCO results. Figures should be referenced like this: Fig. 1.

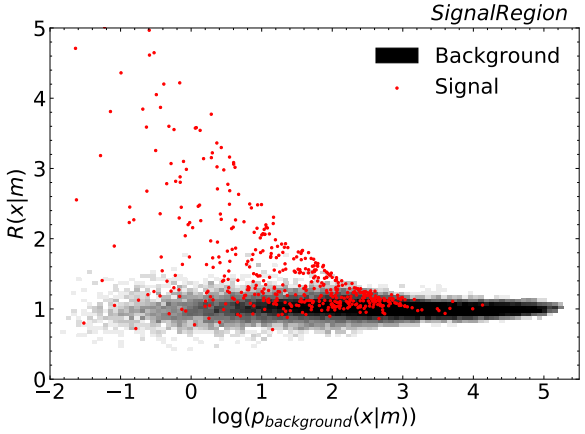

Figure 1. Description of the figure. Reproduced from Ref. [1].

0.3 Lessons Learned

Please say anything that you learned from the experience in general, what you learned specifically from the results, what you improved after you learned about BB1, what you would change in the future, etc.

0.4 Code Availability

Please consider sharing a link to your code! All of the sample links will be included in the paper so no need to add those.

Acknowledgments

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For the references, please use names from Ref. [2]. If your paper is not there or is not updated, please submit a MR!

References

[1] B. Nachman and D. Shih, *Anomaly Detection with Density Estimation*, *Phys. Rev. D* **101** (2020) 075042, [arXiv:2001.04990].

[2] HEP ML Community, "A Living Review of Machine Learning for Particle Physics."