Readme for Reproducibility submission of paper

"DataPrism: Exposing Disconnect between Data and Systems"

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This document provides details of the different experiments, the script to generate their plot and the description of the conclusion from the plot.

A. **Link to paper:** https://dl.acm.org/doi/abs/10.1145/3514221.3517864
B. **Link to Code and Scripts:** https://github.com/sainyam/DataPrism.git
C. **Readme to run and interpret the plots:** https://github.com/sainyam/DataPrism/tree/main/reproducibility/readme.pdf

Note: The runtime results for the experiments may not match, but the plot trends should reproduce. Please refer to the README file (https://github.com/sainyam/DataPrism/tree/main/reproducibility/readme.pdf) to verify the key conclusions.

Figure 6

- Script : bash Figure6.sh
- Time taken: 12 hrs
- Conclusion:
  - DataPrism requires the least number of interventions
  - Anchors requires the maximum number of interventions
  - GrpTest is 2nd best, but it does not run for 3 cases.

Figure 7

- Script : bash Figure7.sh
- Time taken: 4 hrs
- Conclusion:
  - DataPrism requires the least number of interventions as compared to the other two variations.

Figure 8 and 9

- Script : bash Figures_8_and_9.sh
- Time taken: 6 hrs
- Conclusion:
  - Figure 8: DataPrism requires the least number of interventions
  - Figure 8: Anchors requires the most number of interventions

- Figure 9: Median number of interventions reduce with increasing threshold.