

asm_manuscript

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- Abstract
- Importance
 - publishing data helps get more use out of research
 - helps eliminate file drawer effect as it shows more negative data
 - want to incentivize authors to publish/make available their original data
- Keywords
 - data accessibility
 - data reproducibility
- Introduction
 - NIH funded research must make data available as of January 2023 (Policy for Data Management and Sharing (NOT-OD-21-013))
 - investigate metrics of making data publicly available in 12 ASM journals
 - DNA sequencing efforts are commonly uploaded to databases
 - * want to evaluate how well this community is using reproducible data analysis
- Results
- Discussion
- Materials and Methods
 - original dataset from adena (which i think is from crossref)
 - hand identifying 500 papers for da and nsd status
 - training model using mikropml methodology
 - picking a model (glmnet, rf, xgbtree, picked rf)
 - training of the models
 - hypertuning parameters (rf = mtry)
 - Snakemake/python
 - crossref gathering of DOIs
 - webscrape using httr2/rcrossref/wget
 - cleaning of html of each individual file
 - tokenizing, stemming/lemmitization
 - formatting/applying zscore (and replicating that for the rest of the datasets)

- using the model to predict da/nsd
- Supplemental Material file list (where applicable)
- Acknowledgments
- References