

Artifact for MAAT: A Novel Ensemble Approach to Addressing Fairness and
Performance Bugs for Machine Learning Software

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This artifact is for the paper entitled “MAAT: A Novel Ensemble Approach to Addressing Fairness and Performance Bugs for Machine Learning Software”, which is accepted by ESEC/FSE 2022. MAAT is a novel ensemble approach to improving fairness-performance trade-off for ML software. It outperforms state-of-the-art bias mitigation methods. The artifact has been placed on GitHub (<https://github.com/chenzhenpeng18/FSE22-MAAT>) under the Apache License, publicly accessible to other researchers. In this artifact, we provide the source code of MAAT and other existing bias mitigation methods we used in our study, as well as the intermediate results, the installation instructions, and a replication guideline (included in the README). The replication guideline provides the detailed steps on how to replicate all the results for all the research questions. We believe that this artifact deserves the Available, Functional, and Reusable badges.