



Full poster text

Data Set Size Analysis for Detecting the Urgency of Discussion Forum Posts

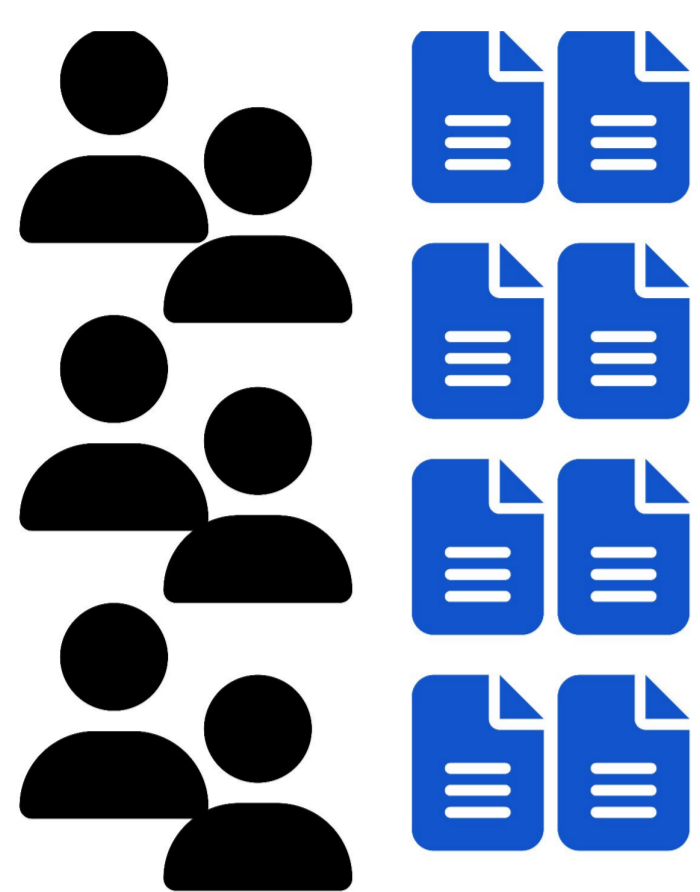
Valdemar Švábenský^{1,2}, François Bouchet¹, Francine Tarrazona³, Michael Lopez II³, Ryan S. Baker⁴

¹Sorbonne University, LIP6 ²Kyushu University ³Ateneo de Manila University ⁴University of Pennsylvania

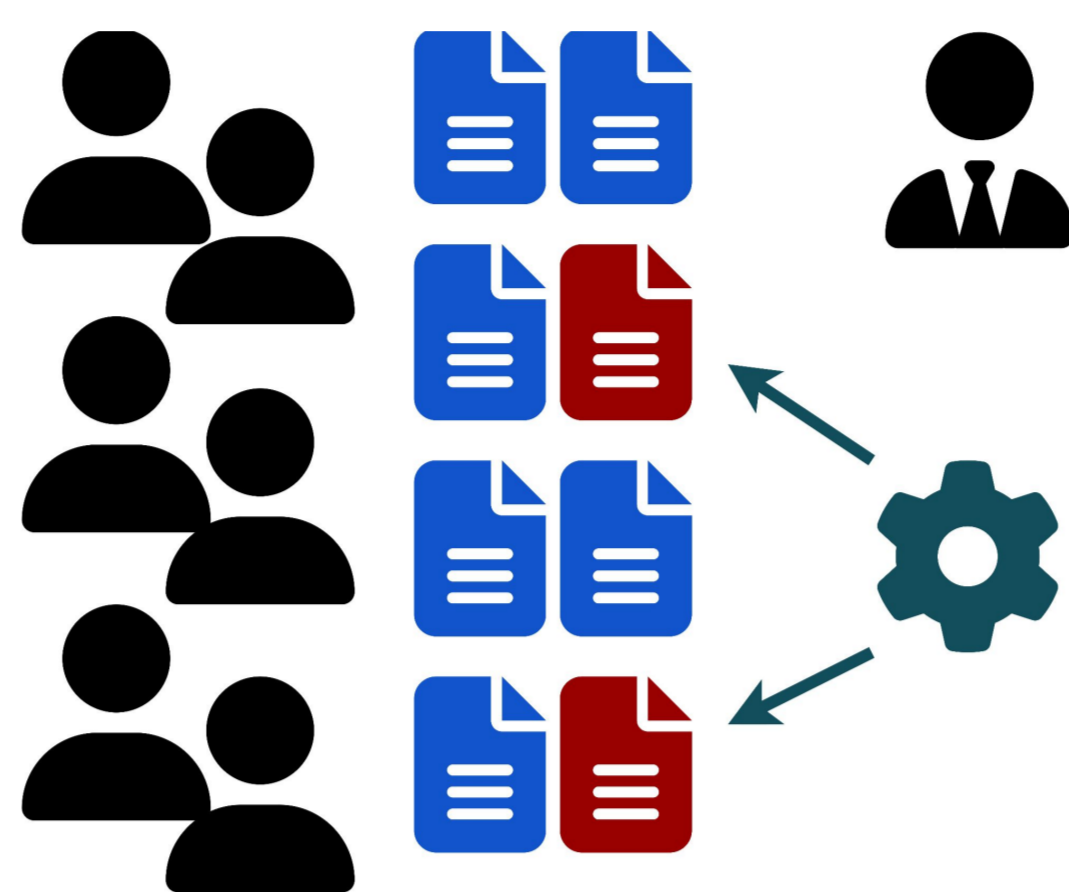


Contact info

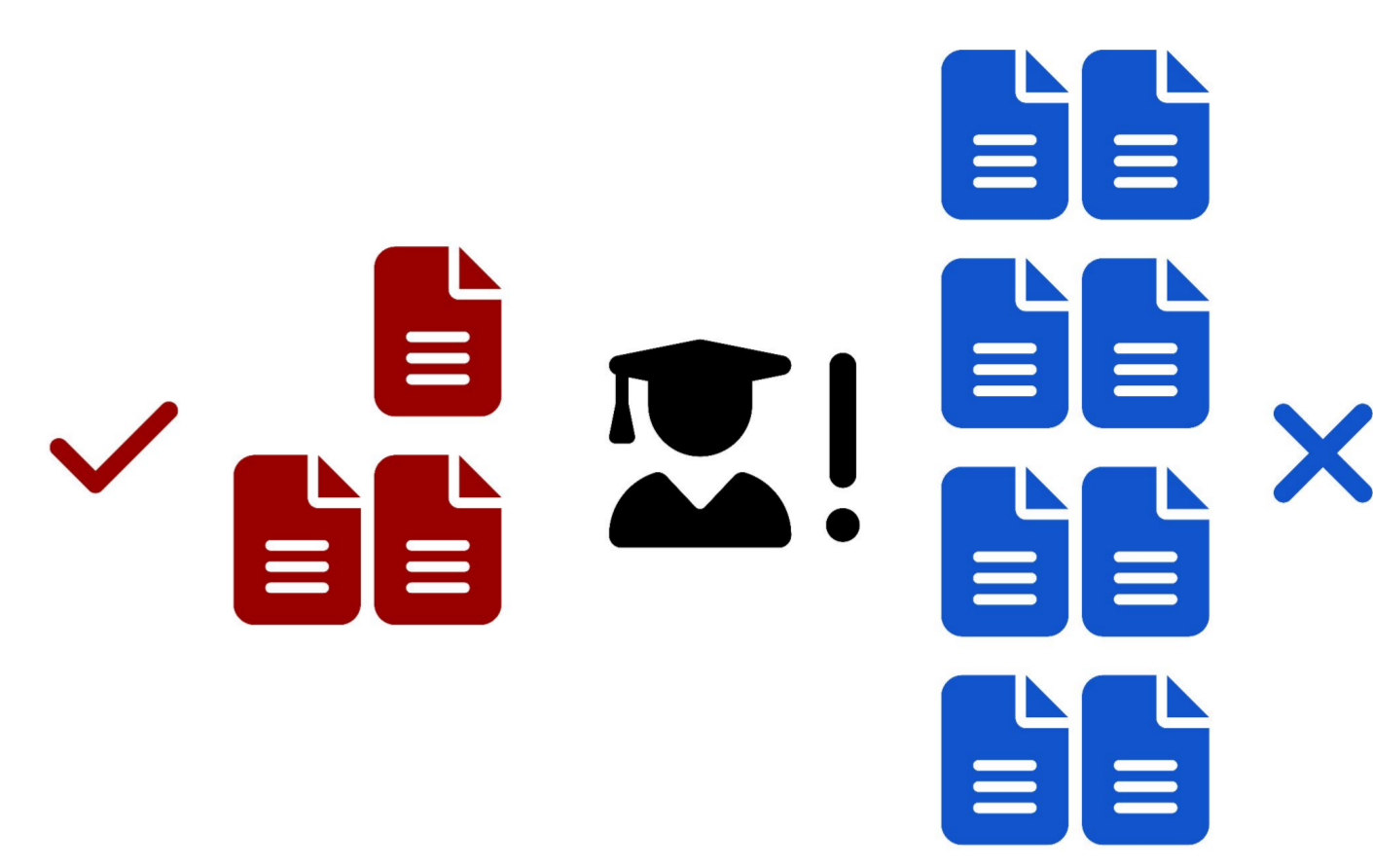
Which student posts in a course's online forum need an urgent instructor response?



Instructors face **many queries** in MOOCs and private courses.

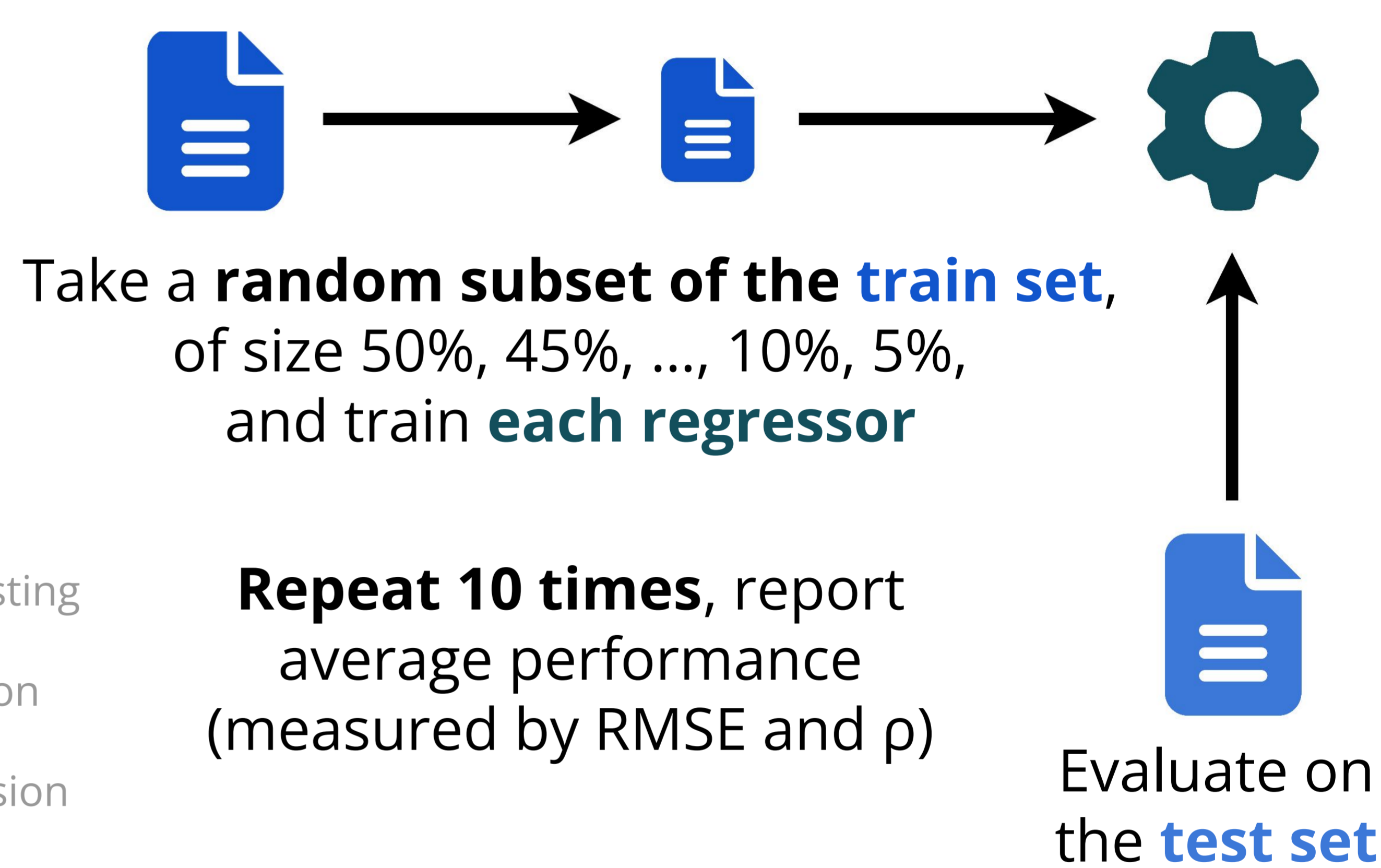
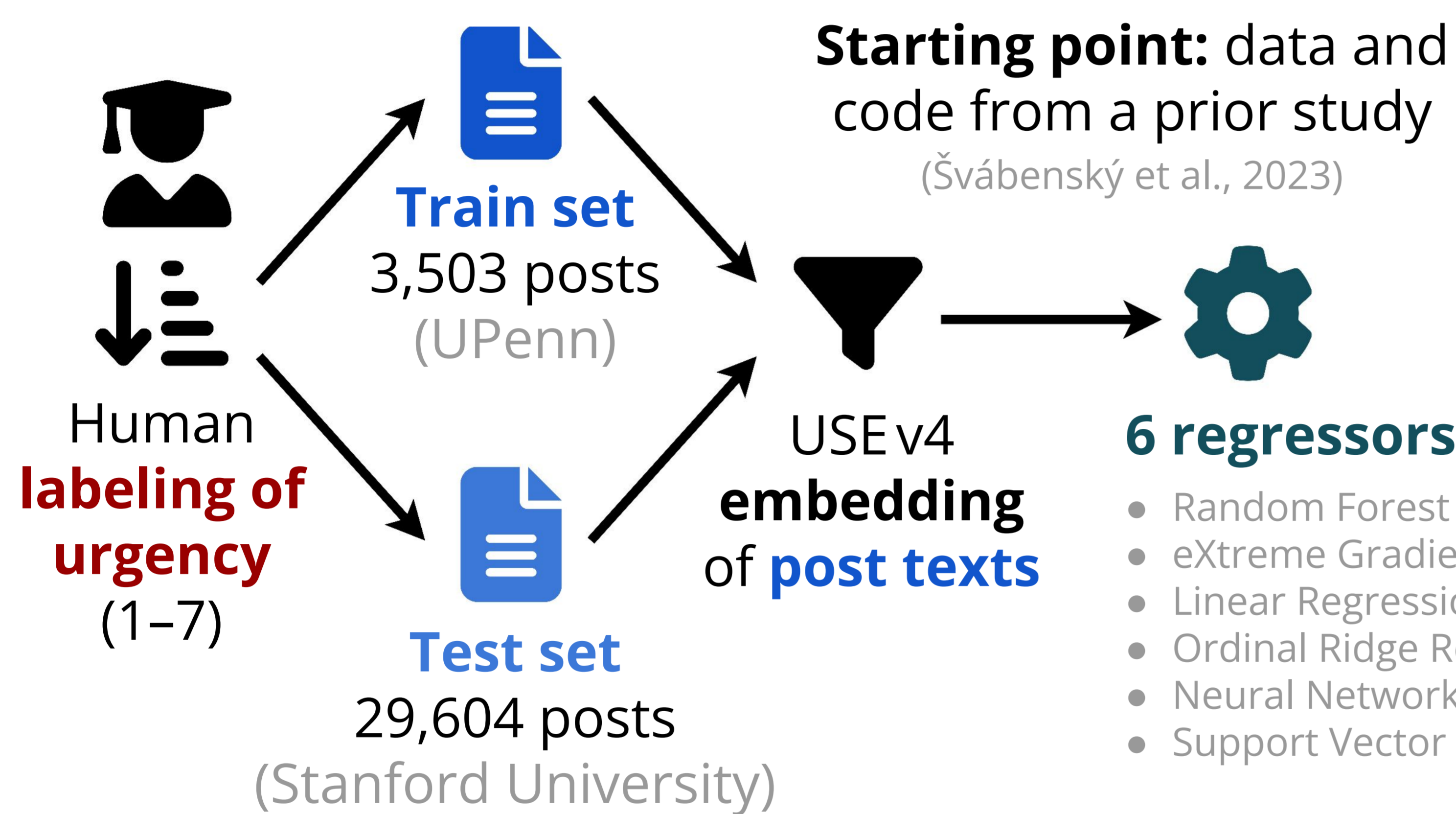


ML models can predict a post's **urgency** to **focus instructor's attention**.

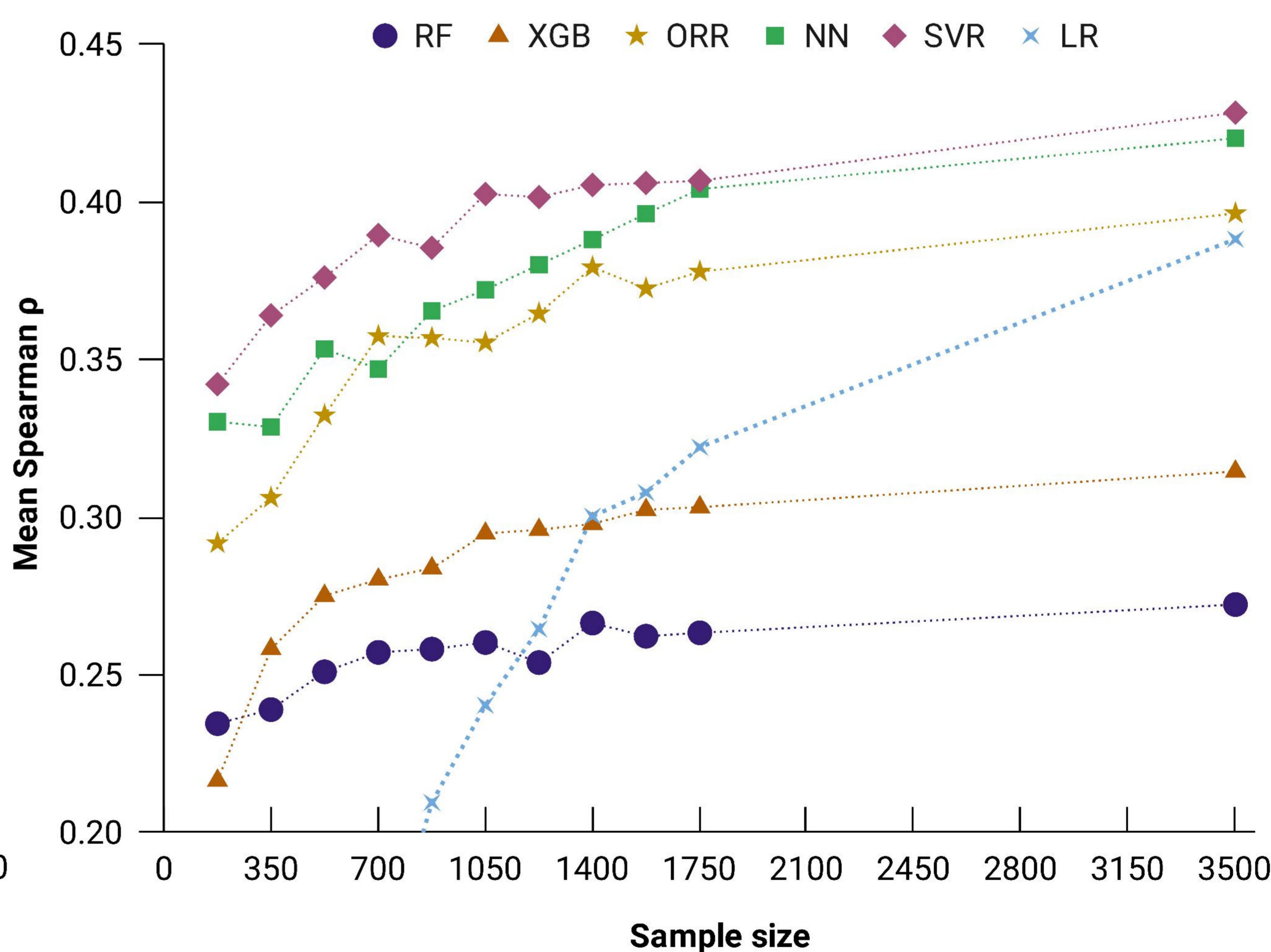
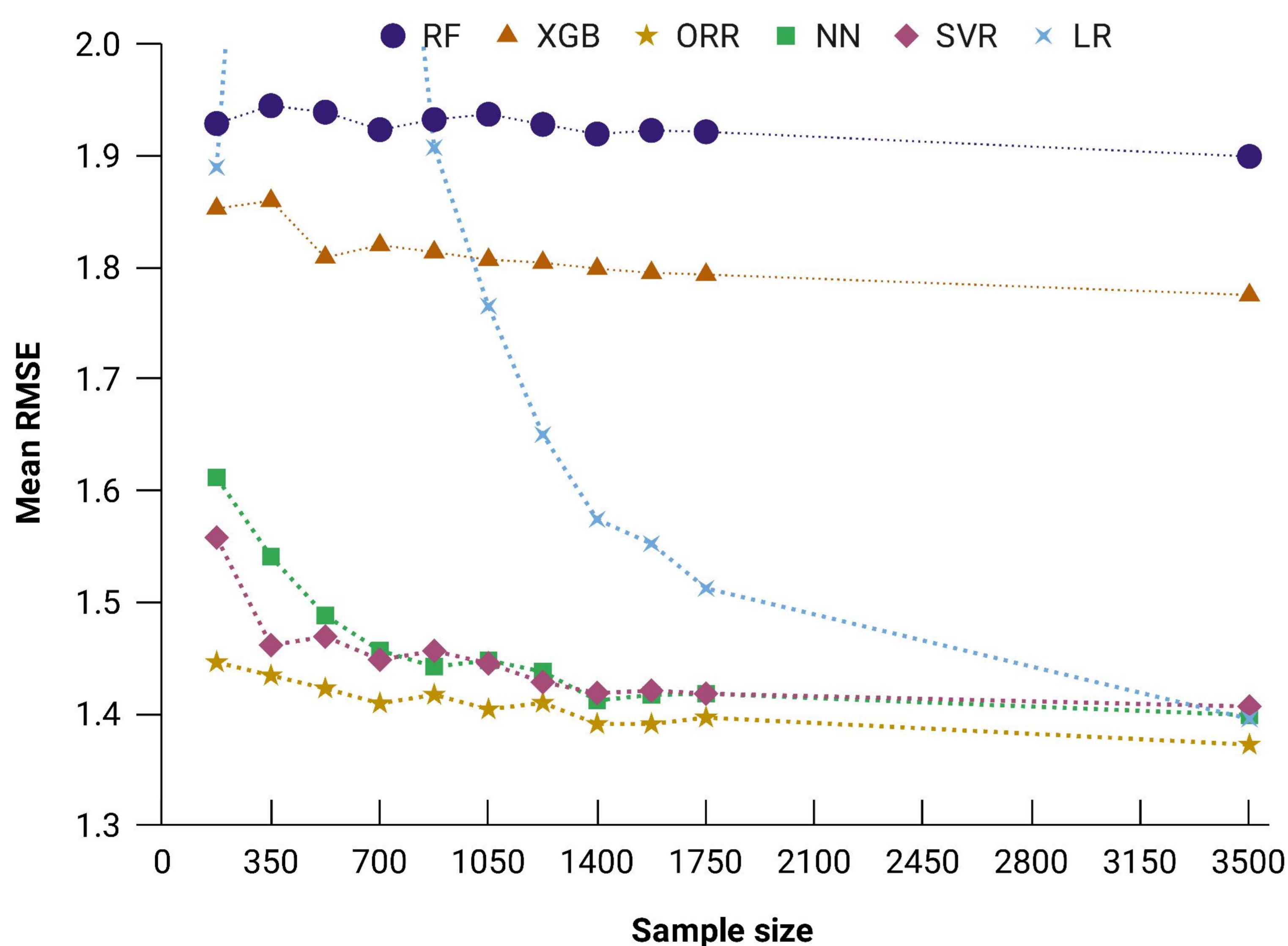


Prior work limitation: **labeling** of **training data** is time-consuming.

Will the model performance change if trained on progressively smaller data subsets?



Smaller data sets perform comparably to larger data sets for 5 out of 6 models.



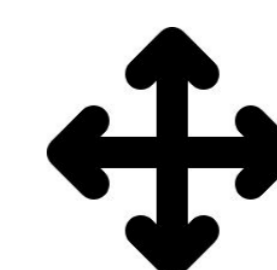
Lower entry barrier and less overhead for smaller courses and other contexts.



No major change was observed after a **several hundred data points**.



This can make the data collection and analysis **less time-consuming**.



Future work can determine a precise **cut-off** and show **generalizability**.