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	dated by author(s):			
Machine Learning Checklist v 1.0				
1. Availability and reproducibility of Code and Data				
Please	select all that apply regarding the availability of the data and code used in the study.			
	 □ Code will be included in a CodeOcean capsule. □ The source code is included in the submission or available in a public repository:	url) url)		
2. Dat	tasets			
A.	All data sources are listed in the paper. ☐ Yes ☐ No (please justify)			
В.	The train, test and validation datasets are publicly available and links/accession numbers habeen provided in the manuscript or supplementary materials. ☐ Yes	ve		
C.	☐ No (please justify) We have reported and discussed potential dataset biases in the paper. Where applicable,			

☐ Yes (please specify section) _____

☐ No (please justify) _____

appropriate mitigation strategies were used.

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	D.	The data cleaning and preprocessing steps are clearly and fully described, either in text or as a code pipeline.
		☐ Yes (please specify section)
		□ No (please justify)
	E.	Instances of combining data from multiple sources are clearly identified, and potential issues mitigated.
		☐ Yes (please specify section)
		□ No (please justify)
3.	Мс	odel and training
	А	What model architecture is the current model based on?
	В.	A Model Card is provided ¹ .
	υ.	☐ Yes
		□ No
	C.	The model clearly splits data into different sets for training (model selection), validation
	C.	(hyperparameter optimization), and testing (final evaluation).
		☐ Yes
		□ No
	D.	The method of data splitting (e.g. random, cluster- or time-based splitting, forward cross-
	υ.	validation) is clearly stated.
		☐ Yes (please specify)
		□ No (please justify)
	E.	The data splitting mimics anticipated real-world applications.
		☐ Yes
		□ No
	F.	The data splitting procedure has been chosen to avoid data leakage.
		☐ Yes (please specify)
		□ No (please justify)
	G.	The interpretability of the model has been studied and clearly validated.
		☐ Yes (please specify section)
		□ No (please justify)
		\(\rightarrow\)
4.	Eva	luation
	Α.	The performance metrics used are described and justified in the paper.
	Λ.	☐ Yes (please specify section)
		□ No (please justify)
		— No (pieuse justily)

¹ https://huggingface.co/docs/hub/model-cards

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B.	Cross-validation of the results is included.
	☐ Yes
	□ No
C.	Community-accepted benchmark datasets/tasks are used for comparisons.
	☐ Yes (please specify)
	□ No
D.	Baseline comparisons to simple/trivial models (for example, 1-nearest neighbour, random
	forest, most frequent class) are provided.
	☐ Yes
	□ No
E.	Benchmarks with current state-of-the-art are provided.
	☐ Yes
	□ No
F.	Ablation experiments are included.
	☐ Yes
	□ No
G.	The model has been tested on a fully independent dataset.
	☐ Yes
	□ No
5. Coi	mputational resources
J. 001	Tipatational resources
Α.	The paper contains information on hardware/computing resources that were used.
<i>,</i>	Yes
	□ No
В.	The paper includes information on the computational costs in terms of computation time,
υ.	parallelization or carbon footprints estimates.
	Yes
	□ No
	<u> </u>