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Abstract—abstratotototot

Keywords: key, word, number, 1

I. INTRODUCTION

intro

II. STATE OF THE ART

sota

III. METHODOLOGY

A. Dataset & EDA

The Financial PhraseBank is a widely used benchmark dataset for financial sentiment analysis. It consists of roughly 4,840 English sentences (mostly news headlines or short statements) about companies, drawn from financial news articles and press releases. Each sentence is labeled with one of three sentiment classes – positive, negative, or neutral – representing the sentence’s sentiment from the perspective of an investor.

+ 50 66 75 percento

ns q concordancia bla bla

https://huggingface.co/datasets/takala/financial_phrasebank
[1], [2]

B. Preprocessing

split teste e treino

IV. MODELS

abcbdhhdhd

A. model 1

exemplo de imagem

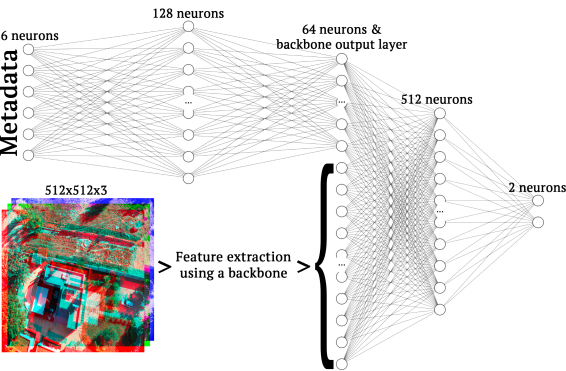


Fig. 1: Architecture of the model shared by user zulo40 in the discussion forums.

hyp tuning example

TABLE I: Hyperparameter space for the models based of the hybrid model *zulo40*. The bold values correspond to the selected hyperparameters.

Hyperparameter	Possible Values
Batch size	{ 16 , 32, 64}
Optimizer	AdamW
Learning rate	[10⁻⁵ , 10 ⁻³]
Weight decay	[10⁻⁵ , 10 ⁻³]
Dropout	{0.2, 0.3, 0.4 }
Scheduler	CosineAnnealingWarmRestarts
T_0	{3, 5 , 7, 10}
T_mult	{1, 2 , 3, 5}
Loss	HuberLoss
δ	1

B. model 2

model 2

C. model 3

model 3

V. DISCUSSION

results discuttion

eemplo de comparacao

TABLE II: Error metric (MAE) for the fine-tuned models, along with the best performers in the competition.

Model	MAE (Test Set)
Hybrid	0.8434
Obj. Det.	1.2645
Inst. Seg.	1.3415
Team Lacuna (1st)	0.3299
K_Junior (2nd)	0.5698

VI. CONCLUSION

conclisao

WORK LOAD

Both authors contributed equally to the project.

REFERENCES

- [1] P. Malo, A. Sinha, P. Takala, P. Korhonen, and J. Wallenius, "Financialphrasebank-v1.0," 07 2013.
- [2] —, "Good debt or bad debt: Detecting semantic orientations in economic texts," 2013. [Online]. Available: <https://arxiv.org/abs/1307.5336>