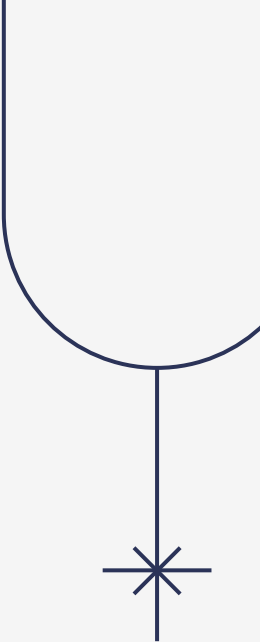
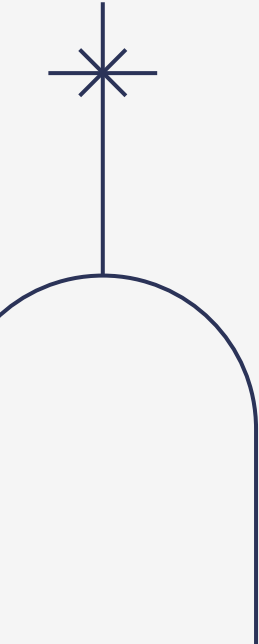



Previsão da temperatura da cidade de São João del-Rei





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01

Introdução



Introdução

- Dados de temperatura de São João del-Rei (**INMET**)
- Métodos: Gradient Boosting, Random Forest e Recursive Forecasting
- Previsão da temperatura com $\pm 1.04^{\circ}\text{C}$ de erro



02

Metodologia





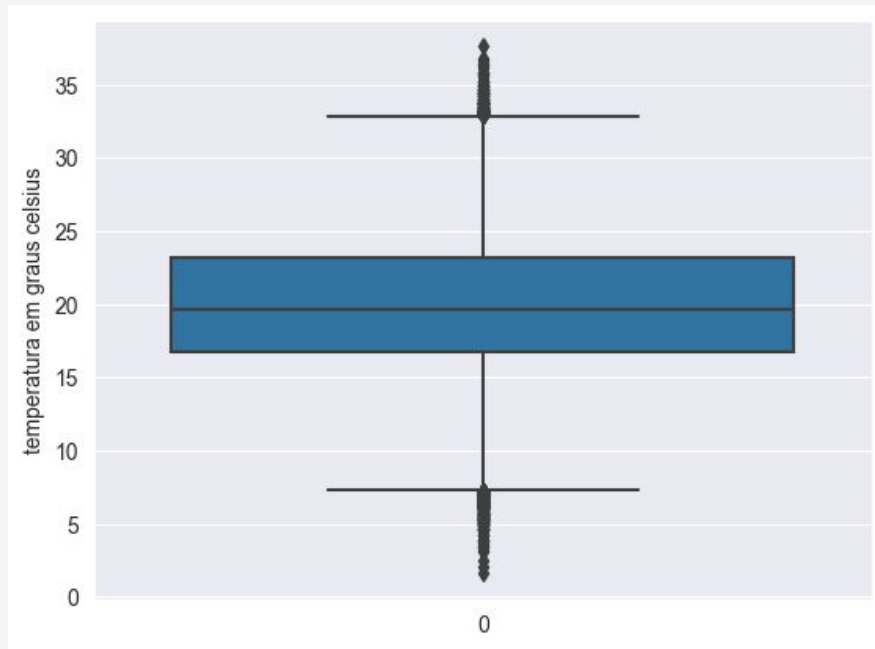
02

Dados



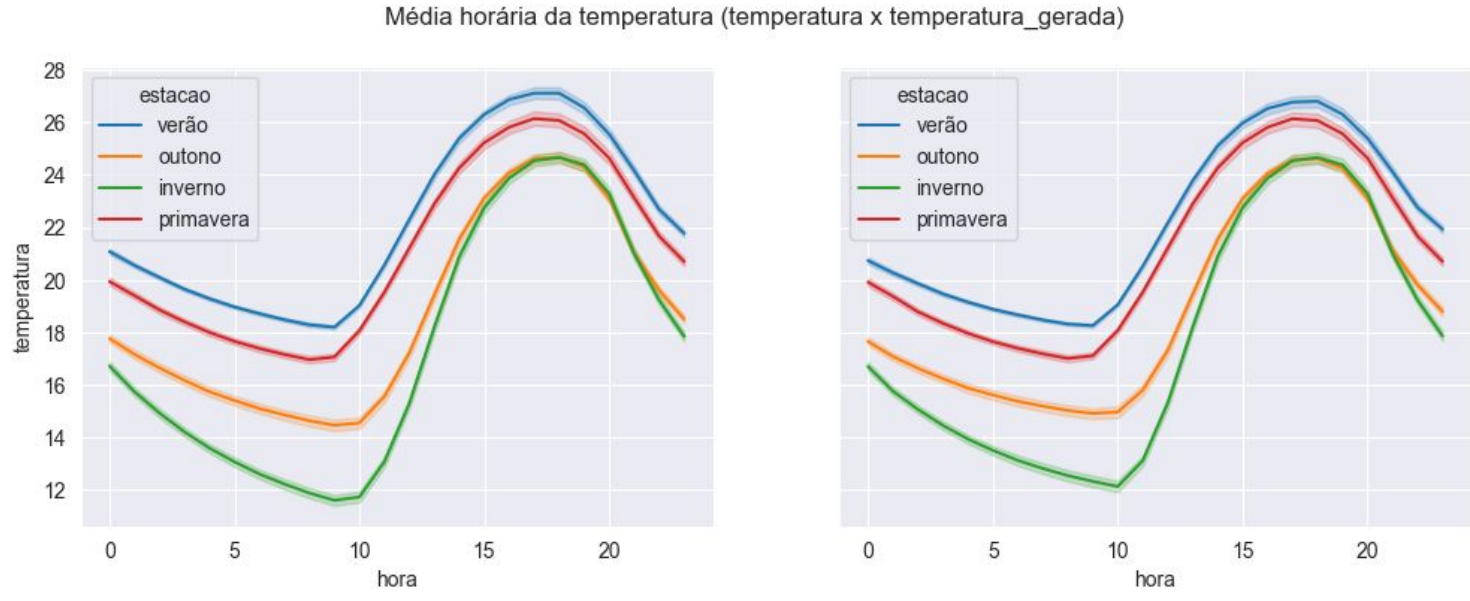


Dados

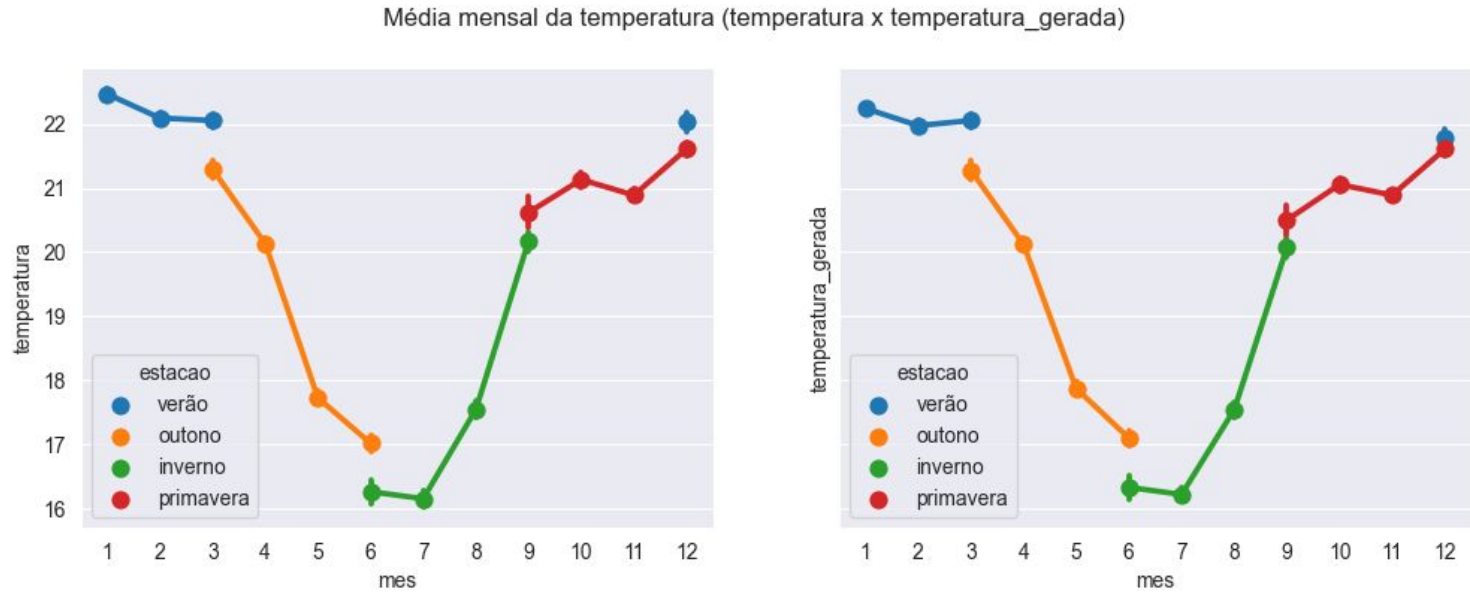


temperatura	
count	83808.000000
mean	19.893916
std	4.972748
min	1.600000
25%	16.800000
50%	19.600000
75%	23.200000
max	37.600000

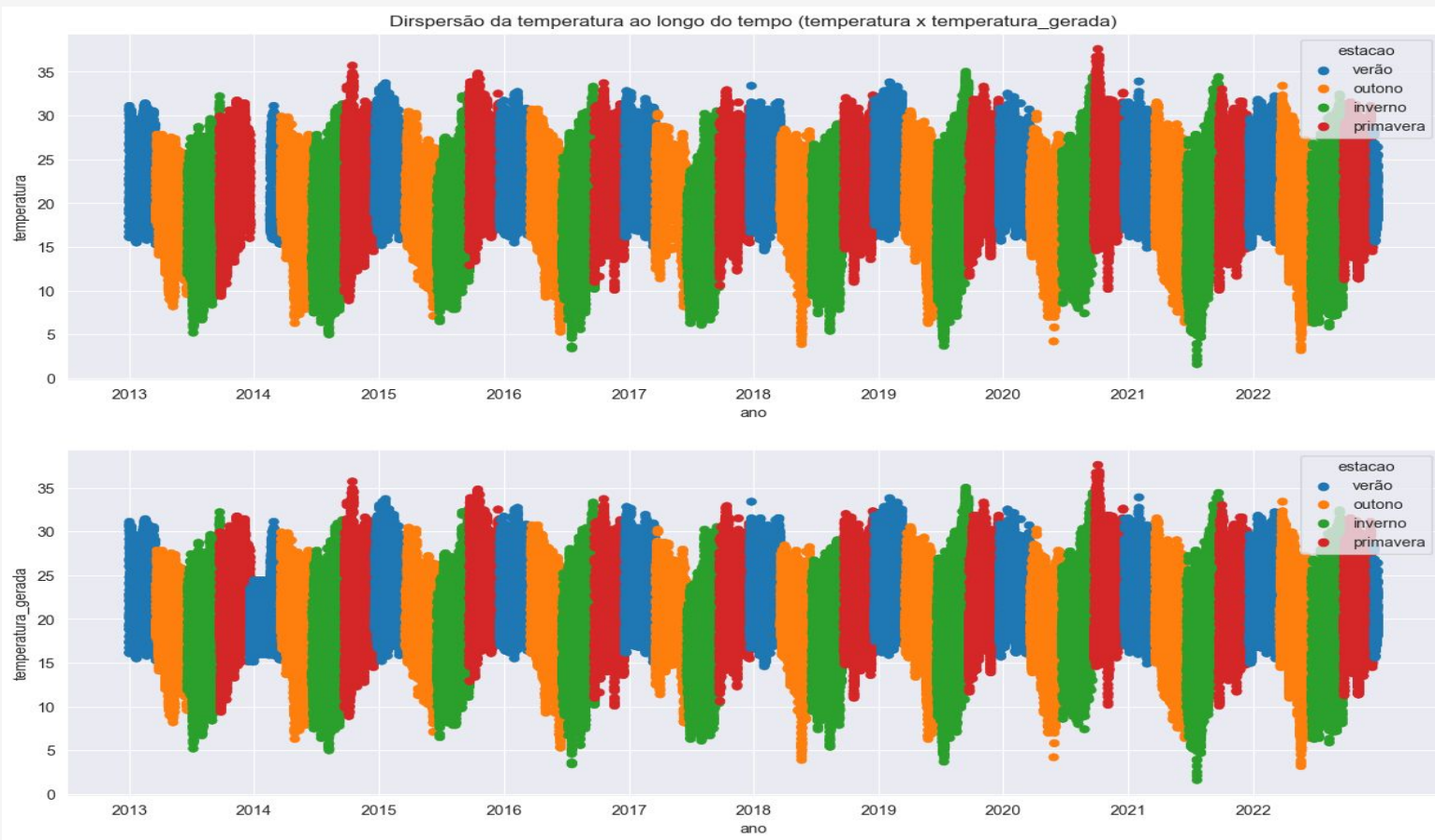
Dados



Dados



Dados





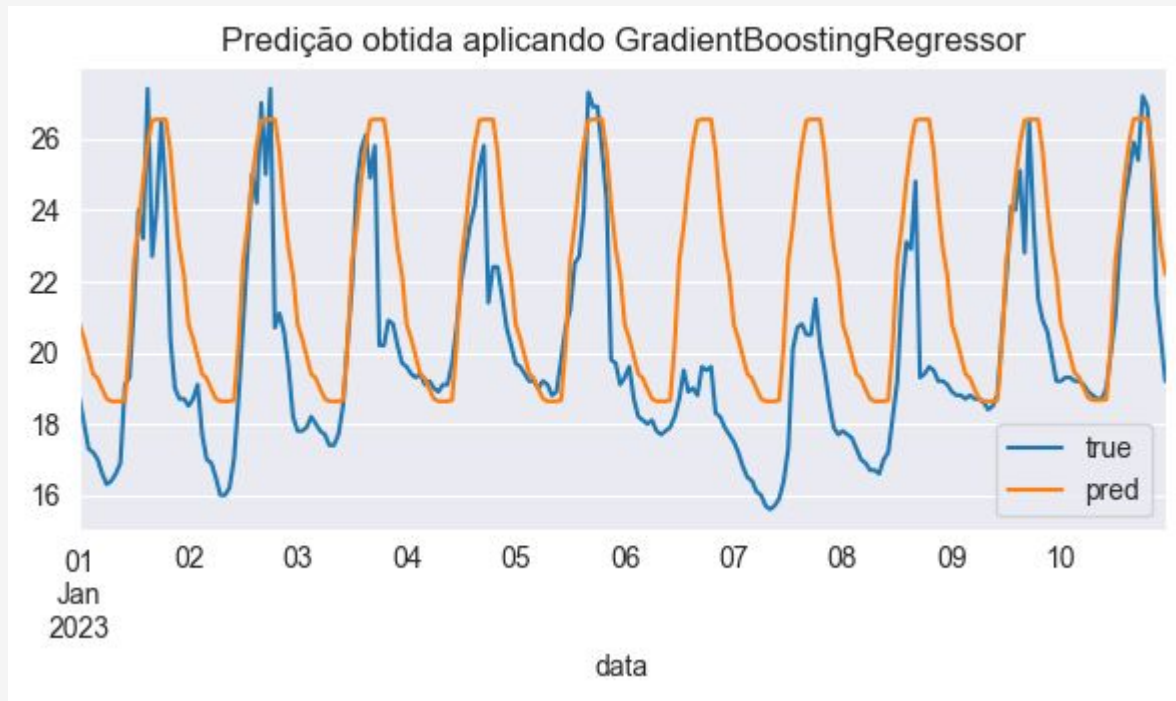
02

Machine Learning





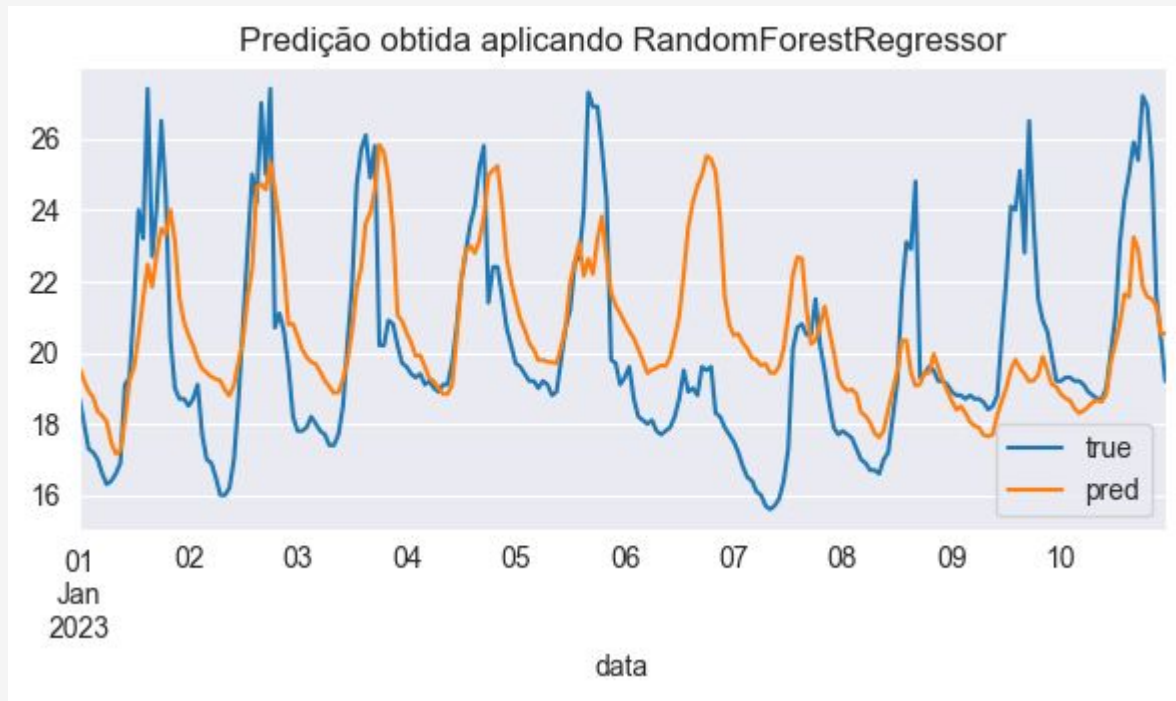
Gradient Boosting



ERROR	VALUE
MAE	2.2
RMSE	2.89
MAX	7.71



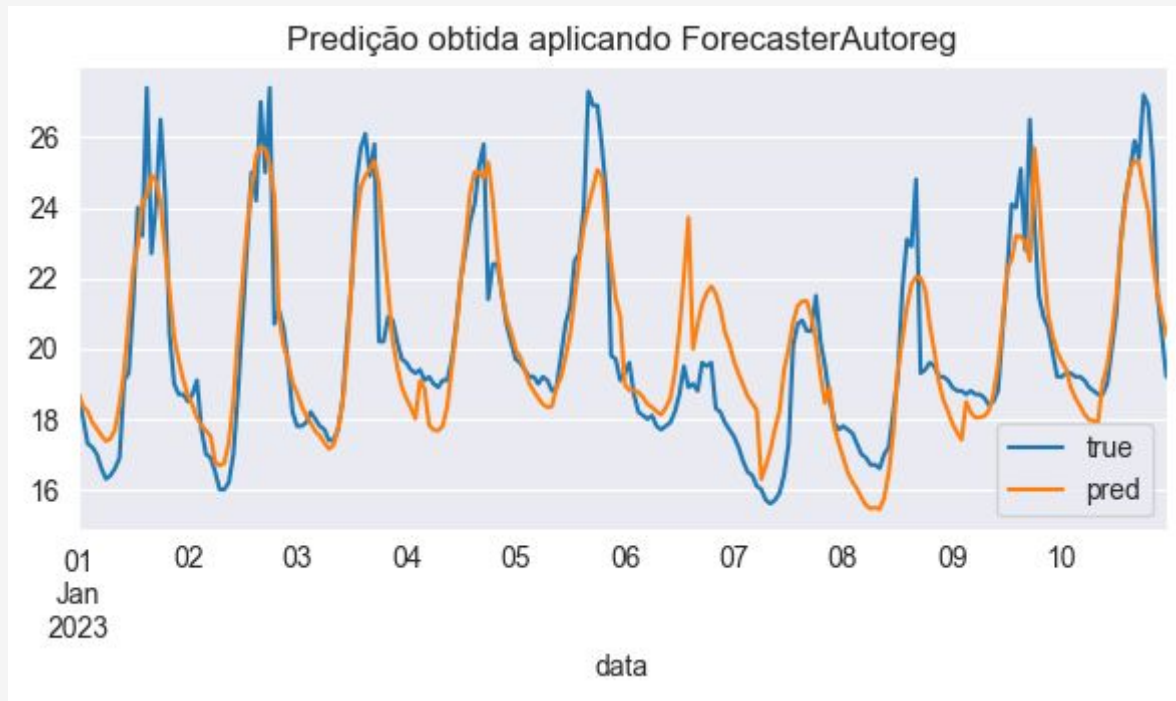
Random Forest



ERROR	VALUE
MAE	1.9
RMSE	2.43
MAX	7.31



Recursive Forecasting



ERROR	VALUE
MAE	1.04
RMSE	1.37
MAX	4.82



03

Conclusão



Conclusão

	model	mean_absolute_error	max_error	RMSE
0	GradientBoosting	2.198198	7.713930	2.887426
1	RandomForest	1.896953	7.305333	2.427012
2	Forecast	1.037904	4.816000	1.369398



Obrigado!

Perguntas?

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