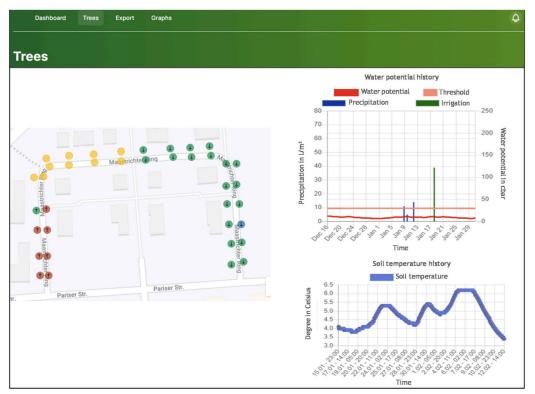
Team: Orange+

Forecast IT

Iustina Orange

Designing smart and sustainable irrigation: A case study.



Gimpel et al. "Designing smart and sustainable irrigation: A case study"

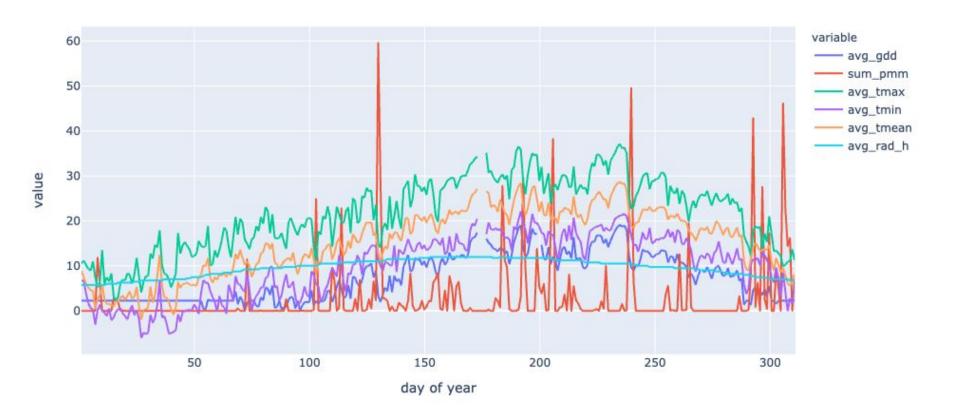
Growth-degree day (GDD)

GDD is a heuristic tool which calculates the date when the flower will bloom, or a crop will reach maturity.

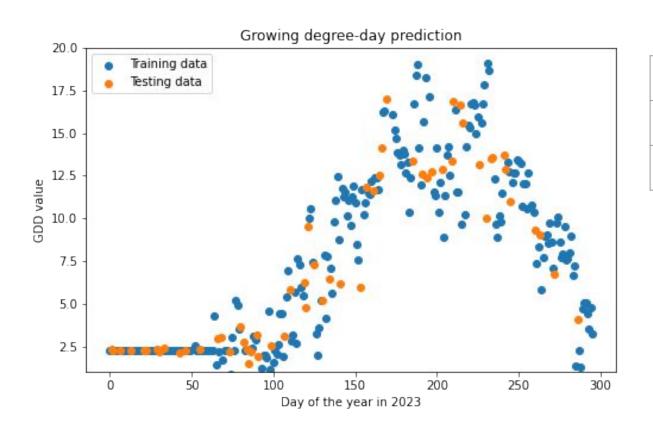
GDD are calculated by taking the integral of warmth above a base temperature, $T_{\rm base}$ (plant type dependant):

$$GDD = \int (T(t) - T_{
m base}) dt$$

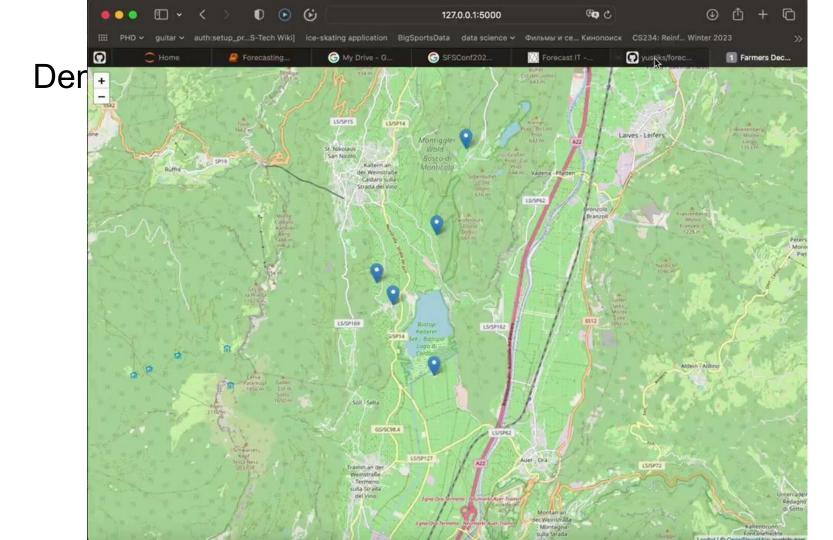
Time-series for climate data for one year



Random Forest Regression Prediction



Cross-validated	
RMSE value	2.197
RMSE %	11,5



Feature importance

