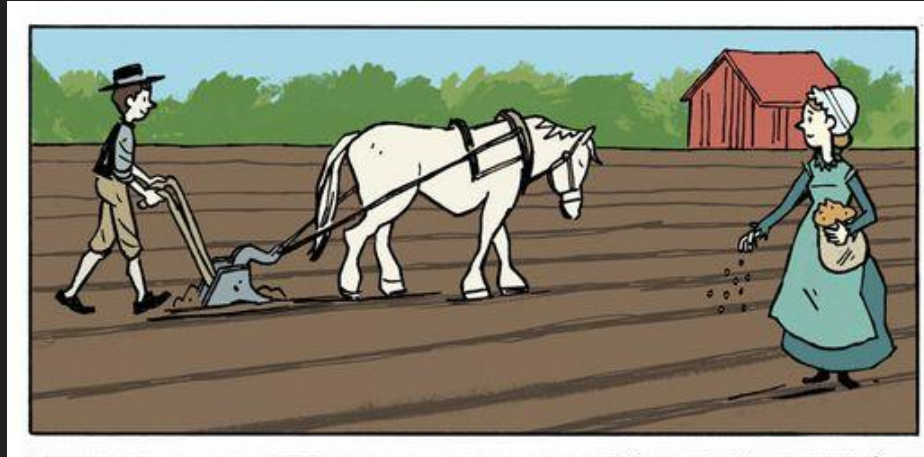




/ Time data



Once upon a time there was
a farming couple who lived
happily from their harvest.





They left the farm because they did not see the drought and high temperatures coming.





Years went by and the whole
farm went to waste





Very bad although there were
good seasons with stable
temperatures.



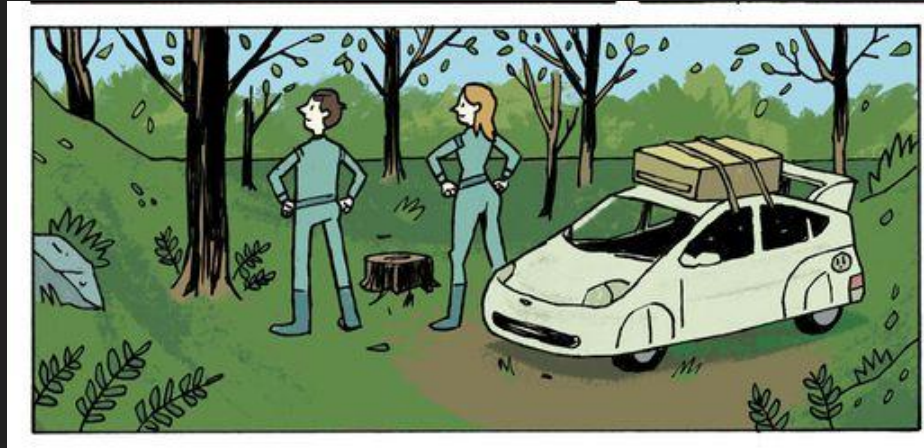


So bad...



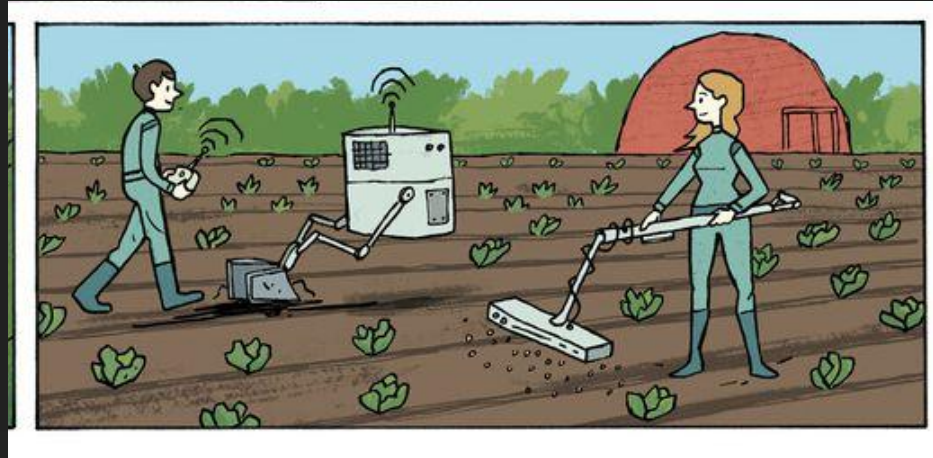


Until one day, the farmers' grandchildren came along and wanted to continue their grandparents' life.



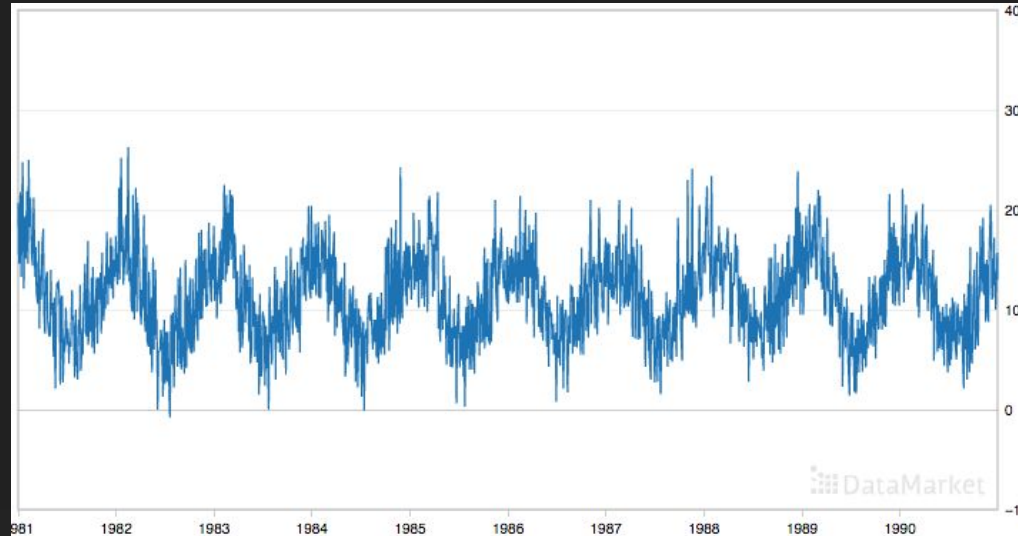


Modernized the farm with robots and installed thermometers for predictive temperature modeling





Here is the temperature collected from
the robot





Your task is to help the new farmers by predicting the coming temperature

1. Extract year, month and day_of_mont
2. Get lags features → Pandas shift()
 - a. The temperature of day before, and 2 days ago
3. Rolling Window Statistics → Pandas rolling()
 - a. Mean, min & max of 7 previous days
4. Try new features
5. Select the year 1990 as a validation set
6. Try some some ML models to predict 1990
 - a. You can use the RMSE as the metric

