

# Challenge #4

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psLove challenge

# Overview

Using AI, predict when an upcoming period will most likely start next for a given female user, helping women to predict fertile window and predict symptoms and correlations

# Understanding the problem

## Users.csv

- id
- dob
- cycle\_length\_initial
- period\_length\_initial

Total 7000 Users

## Symptom.csv

- id
- user\_id
- Symptoms such as acne,backache etc
- Total 13000 Symptoms

## Period.csv

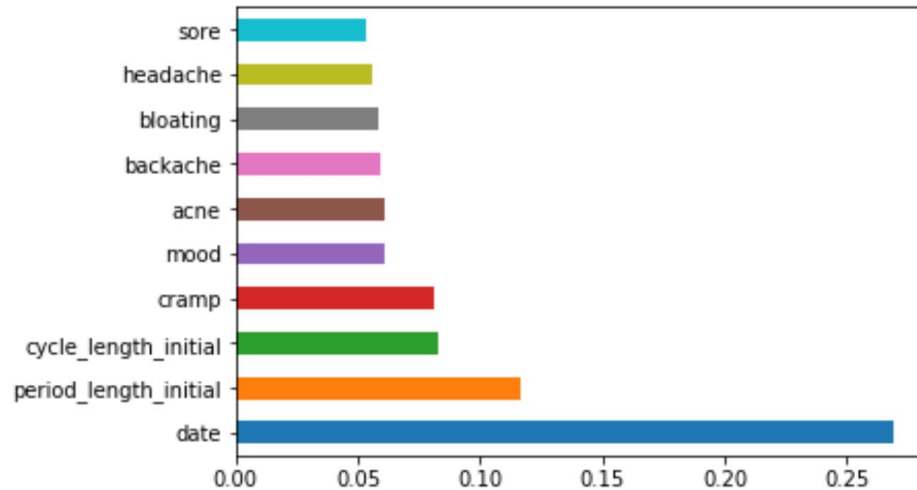
- .id
- .start\_date
- .end\_date
- .User\_id

Total 35000 Entries

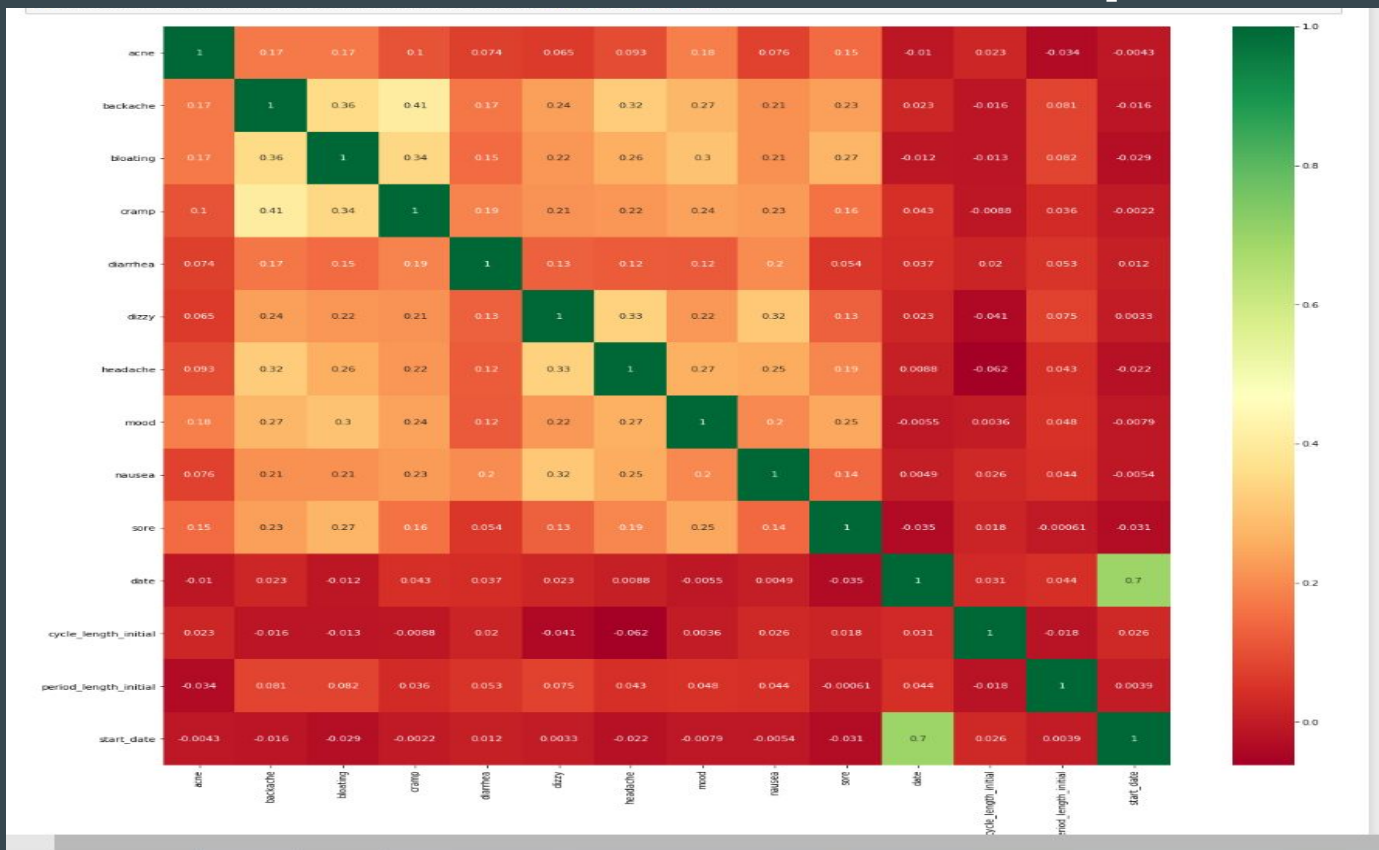
# **Our objective:**

- Find correlation between symptoms,Symptoms\_start\_date,cycle\_length,Period\_date
- Predict when an upcoming period will most likely start in next cycle.

# Features contribution in Prediction of Next cycle Start date



# Correlation HeatMap



# Team

- Rahul Baisa
- Pavan Reddy .G