main nb

January 12, 2021

1 Phase 1: loading in data

```
[3]: user_code = 'BMR002'
user_factory = ActivPalUserFactory()

activPal_user = user_factory.create_from_respondent_code(user_code)
ap_df = read_csv_activpal20(user_code)
```

2 Phase 2 Recognizing activities

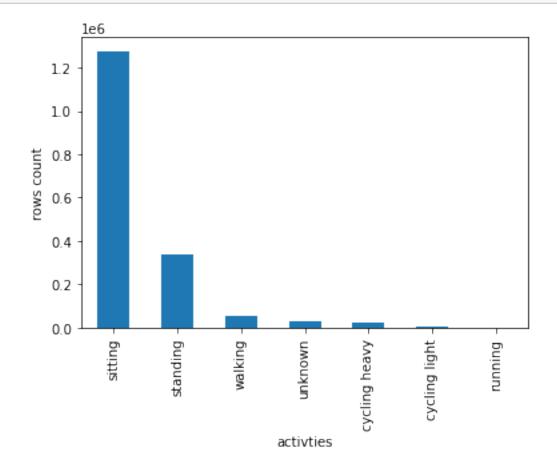
/opt/jupyterhub/anaconda/lib/python3.6/site-packages/dask/dataframe/utils.py:15: FutureWarning: pandas.util.testing is deprecated. Use the functions in the public API at pandas.testing instead.

import pandas.util.testing as tm

[01:30:32] WARNING: ../src/objective/regression_obj.cu:174: reg:linear is now deprecated in favor of reg:squarederror.

[01:30:32] WARNING: ../src/objective/regression_obj.cu:174: reg:linear is now deprecated in favor of reg:squarederror.

[5]: activites_distribution_plot(dataset)



$3\quad {\rm phase}\ 3\ {\rm Recognizing}\ {\rm MET\text{-}value}$

```
[6]: dataset = recognize_met_value(dataset, activPal_user)
```

[01:32:27] WARNING: ../src/objective/regression_obj.cu:174: reg:linear is now deprecated in favor of reg:squarederror.

[01:32:27] WARNING: ../src/objective/regression_obj.cu:174: reg:linear is now

```
deprecated in favor of reg:squarederror.
PHASE 3.1 PREPARING DATA
                              float64
sum_mag_acc
mean_speed
                              float64
activity
                               object
gender
                                int64
estimated level
                                int64
is_sporter
                                int64
length_cm
                              float64
                              float64
weight_kg
                              float64
bmi
                                int64
age_category
meets_balance_guidelines
                                int64
meets_activity_guidelines
                                int64
dtype: object
PHASE 3.2 MODEL PREDICTING
PHASE 3.3 DONE
```

4 Phase 4: calculating if userr has been active

5 Phase 5: plot daily activities

```
[13]: for day in unique_days:
    if day in dataset.index:
        day_dataset = dataset[day]
        plot_day(day_dataset, day)
```





[12]: <matplotlib.axes._subplots.AxesSubplot at 0x7f0abc4a6cc0>

