Project proposal.

Body performance:

This is proposed as a requirement of T5 Bootcamb.

Introduction:

Body performance is about our bodies, so we talk all time that should be to learn and understand our bodies, health, strength …etc. so we can it could provide safely and effectively.

This proposal provides the features that we would rely on to calculate best body performance, Qs that we need to do calculation, the tools to perform our calculation and how would we do that.

Data Set description:

This data set can be found at Kaggle.

The data set describe every person and classify them to classes according to their information A, B, C and D, A is the best

Data shape (13393, 12)

- Age
- Gender
- Height in CM
- Weight in KG
- Body fat
- Diastolic: diastolic blood pressure (min)
- Systolic: systolic blood pressure (min)
- Grip Force
- sit and bend forward in CM
- sit ups counts
- broad jump in CM
- class

Age	gender	Height_cm	Weight_kg	Body_fat%	diastolic	systolic	gripForce	sit and bend forward_cm	sit-ups counts	broad jump_cm	class
27	M	172.3	75.24	21.3	80	130	54.9	18.4	60	217	C

Qs on the DS:

On what basis classifying people done?

Which features affected the class more?

Can we fine new feature more helpful?

Tools:

There are different tools we would work with as Machin Learning:

- jupyter notebook
- pandas
- numpy
- matplotlib

To Do:

- add new feature called BMI (body mass index) which is

weight \ height^2.

- finding the accurate model that would classify people correctly.

Note : the used features may be increased or changed and the model as well.