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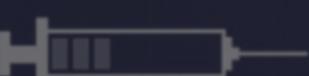
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Correlation analysis of biological data during aging



INFO 70%

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INFO 30%

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INFO 50%

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INFO 60%

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DATA 01

DATA 02

EDA

Sara Picó
Data Science | The Bridge



TITLE



TITLE

DATA INFO

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Current problems in society



**“I want a healthy lifestyle for my wellbeing and longevity.
How can I achieve this?”**

Current problems in society

“I want to acquire and maintain clients through more innovative services”



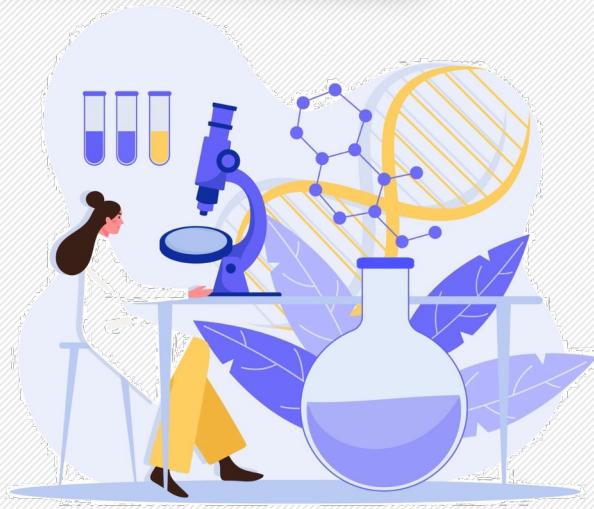
Not enough personalized solutions



Inaccurate apps

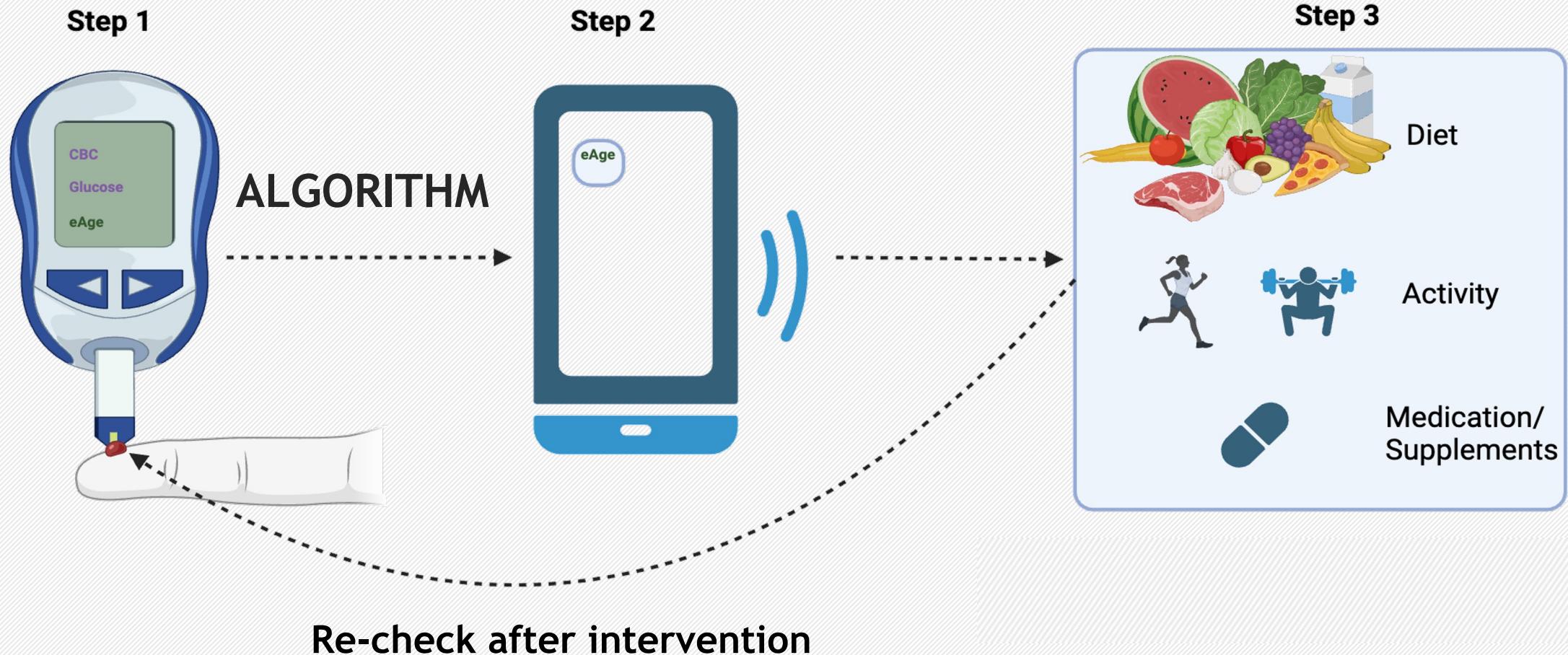


Not related to aging



Not science based

Our solution: eAge



Data Scientist needed!

Before creating the algorithm, **correlation data of age and biological markers** is needed.

Fortunately, our co-founder, Sara Picó, is trained in Data Science.



A bit of the EDA

- Age (main)



- Gender



- Age group

A bit of the EDA

- Age (main)



- Gender



- Age group

- High blood pressure



- Diabetes

- Cancer



- Lung disease

- Heart condition

- Stroke



- Psychiatric problems

- Dementia



- Cholesterol

A bit of the EDA

- Age (main)



- Gender



- Age group

- High blood pressure

- Diabetes



- Cancer



- Lung disease



- Heart condition



- Stroke



- Psychiatric problems

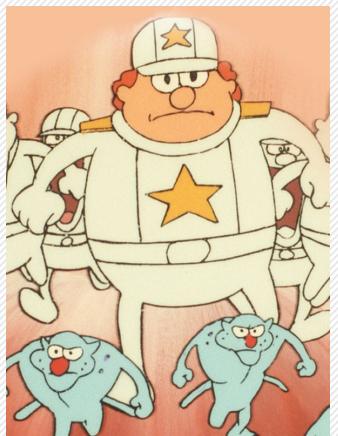
- Dementia

- Cholesterol

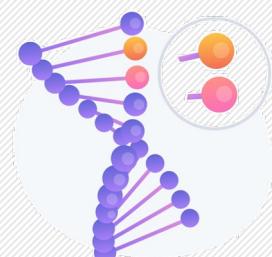
Correlation
with biological markers



Blood test



Immune cells

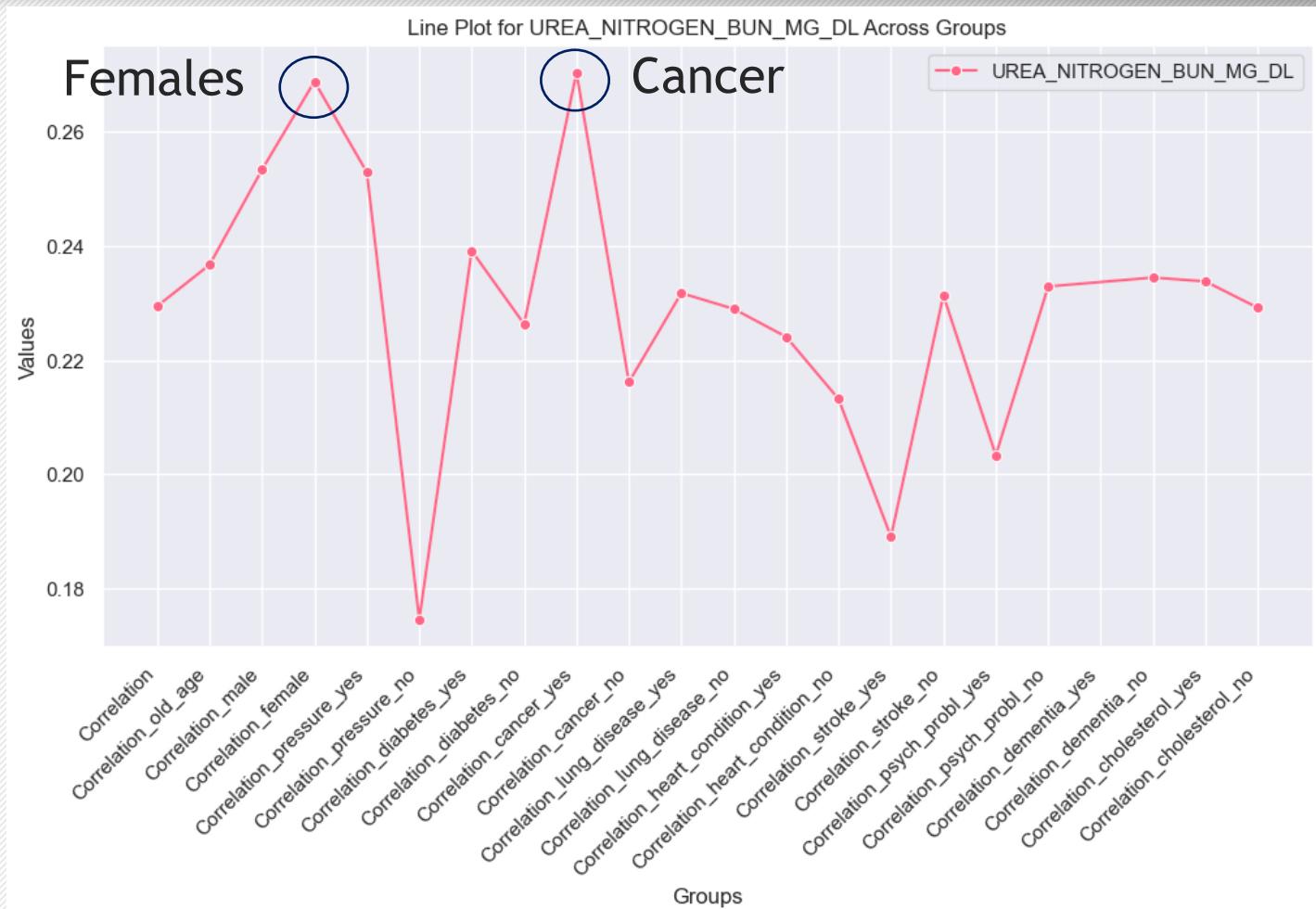


Other
parameters

Results

All correlations > 0.15 or < -0.15 were statistically significant.
Decided to work with > 0.25 or < -0.25 .

Example:

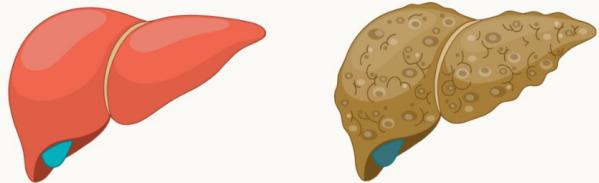


Results

Good biomarkers for aging:

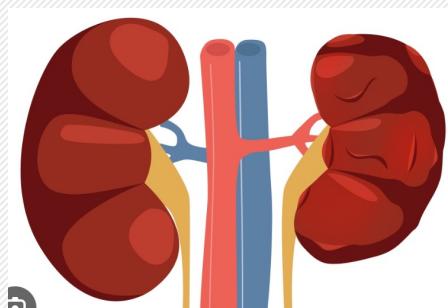
Decrease

Alanine
aminotransferase



Decrease

Urea
nitrogen

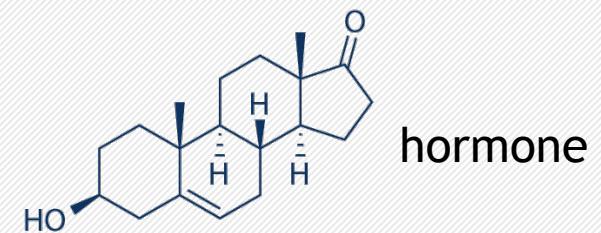


Increase

Cystatin C

Increase

DHEA
(Dehydroepiandrosterone)



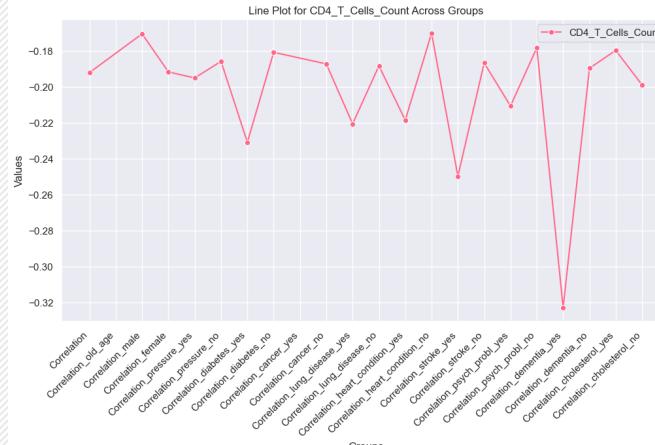
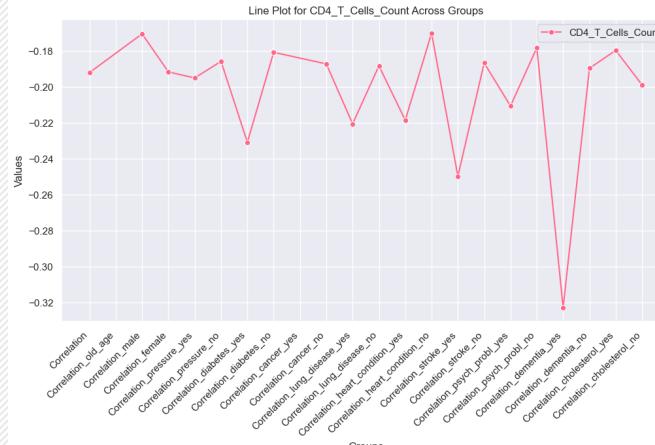
Specially in:
Cancer
Dementia

Specially in:
Females
Cancer

Specially in:
Cancer

Specially in:
Old people
Stroke
Cholesterol

The surprise: dementia



Immune system affected!

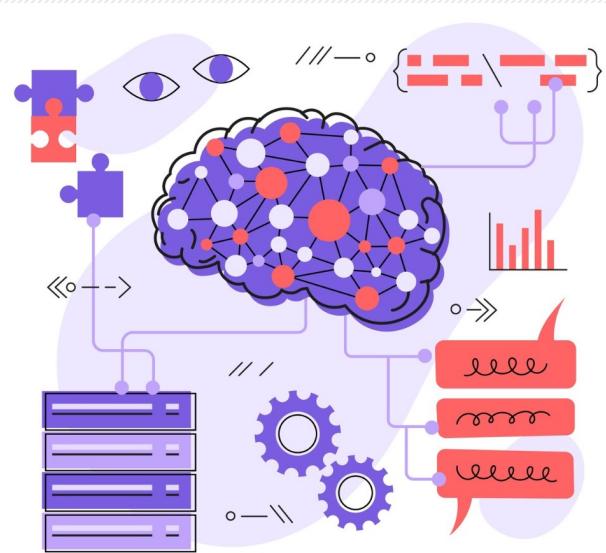
- Increased size of red blood cells
- Decrease no. Red blood cells
- Decrease no. T cells
- Decrease no. CD4 T cells
- Decrease no. CD8 T cells
- Decrease no. TGF beta

Future perspectives

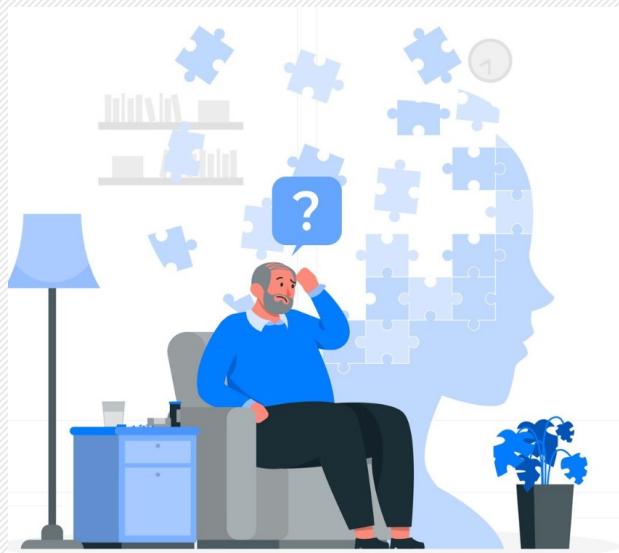
Implement the device for the selected biomarkers



Create algorithm using these 4 biomarkers



Case study for a new possible dementia biomarker



Thank you!