

We are starting at 13:00!

Grab a seat and get ready



Saturdays.AI
Kigali



**Be prepared for the
future, code in AI**

AI Saturdays Kigali

**Learn Artificial Intelligence by building
impact projects while fostering diversity**

Saturdays.ai



What is Saturdays.AI?

An **impact-driven organization** with the mission of **making Artificial Intelligence accessible to anyone**, through the creation of communities and **training** in **machine learning**.

PROGRAMS:

 **AI Saturdays**, our main program, a **social AI bootcamp**, now available in 30+ cities.

 **AI4Schools**, empowering students and teachers to learn AI as a cross-skill.

 **FridAIs**, a corporate *AI Saturdays*, using organization's use cases to **upskill** key employees while building ready to scale **prototypes**.

Our 3 pillars:

- Project based,**
collaborative learning.
- Building social impact,**
open-source projects
- Diversity in people.**



and what is AI Saturdays?



A program of **12 weeks on saturdays**, to learn AI using the best resources and building impact projects accompanied by mentors.

Our 3 strengths:

1. Learn by doing
2. Community
3. Real impact

“Code 2 Learn”

We learn the basics of machine learning through coding **exercises** in a collaborative manner, with the help of mentors.

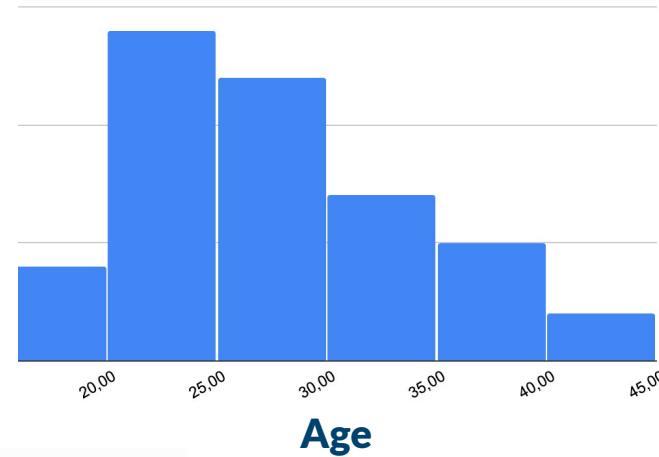
“Build 2 Learn”

We build **end2end prototypes** of Artificial Intelligence that have a positive **impact** and are **open-source**.

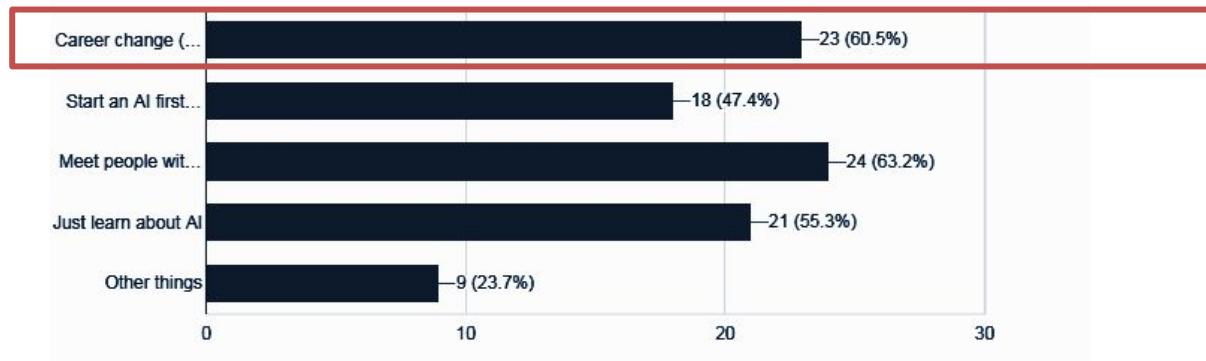


We <3 data

Who participates in AI Saturdays ?



What'd you like to get from this journey?



Saturdays.AI Community

Since January, 2018



30+

Cities

40+

Ambassadors

4k+

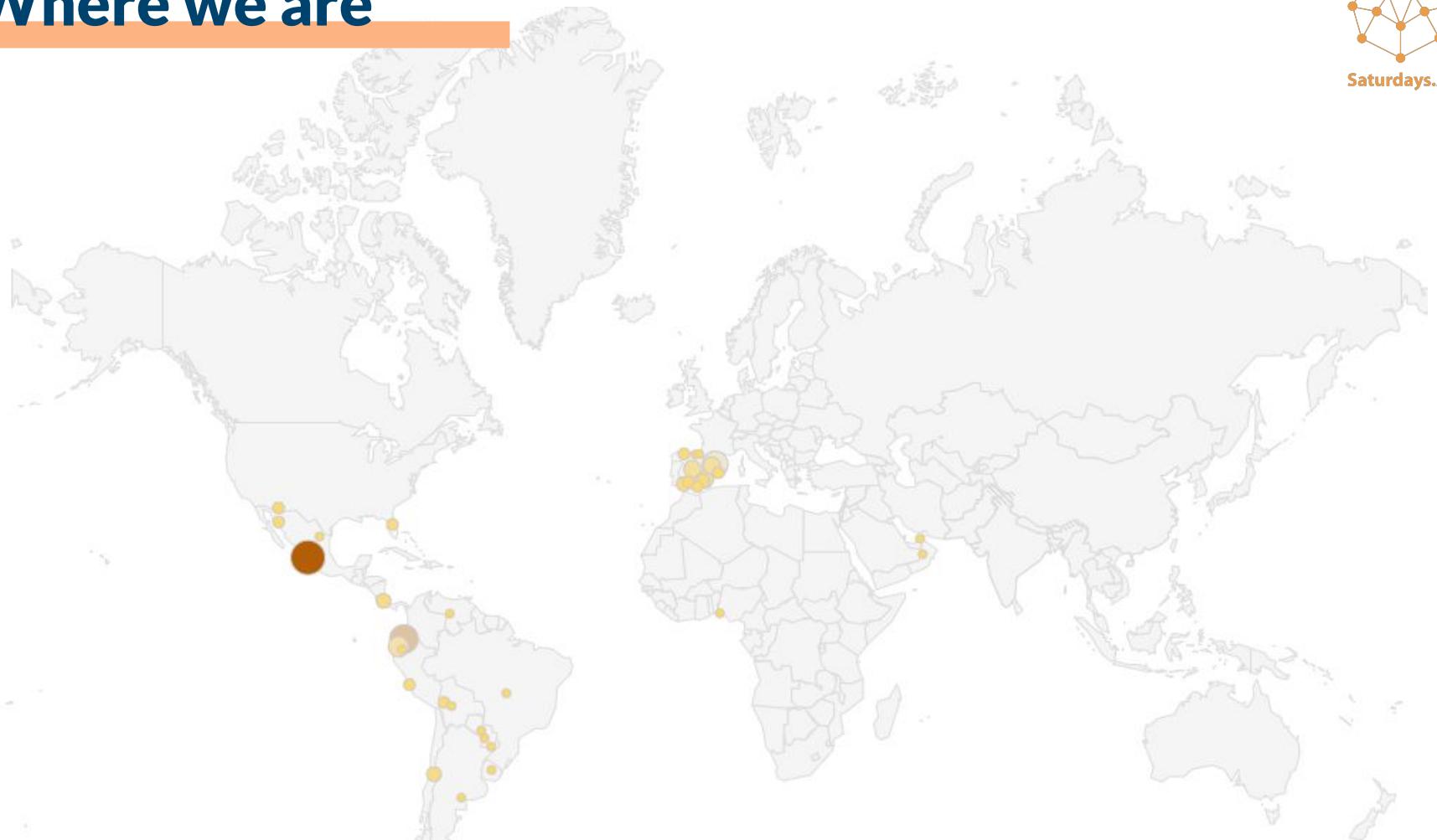
Fellows

200+

AI Projects



Where we are



Our Local Team



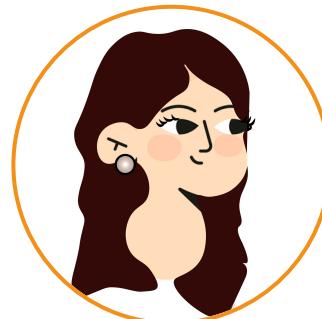
Charles Yusuf

Kigali City Lead



Samuel Rutunda

Administration



Pierrette Mastel

Facilitator



Emmanuel Ndayisaba

Facilitator



Esther Habimana

Facilitator



...many more

Facilitator

The course

3 x AI itineraries *

(+ an Intro. to Python for newbies before starting the program)



Machine learning

To lay the foundations, from EDA to Gradient Descent, including random forest and regressions. Converging in building an awesome impact project.

Deep learning

Deep dive into DL, from CNN to GANs, including RNN and NLP. Everything adding up to build a great impact project with support of mentors and the community.

Cutting edge

Advanced Reinforcement Learning, Brain Computer Interface, DL applied to IoT, Advanced NLP... anything AI related that almost did not exist 2Y ago.

**not every city offers the 3 itineraries*

Participants Requirements

Participants must have a minimum knowledge of programming and Python to be part of AI Saturdays. In our web you have access to a guided course that we prepare, that you can do during the promotion of your edition.

- English > 80%.
- Python : (Pandas, Numpy). Students can test Python level [here](#)
- Students can refresh python concepts [here](#)
- Linear Algebra concepts.

In our experience, students who enter the course without at least 20 hours of Python programming knowledge slow down the pace of the other students



Participants' Benefits



Graduation Diploma (certificate)

Saturdays.AI provides students with a diploma of achievement where the program and itinerary are mentioned, as well as the project.

To graduate, a participant must meet the following conditions:

1. Complete an open source project with social impact:
 - a. Present it in the Demoday (we recommend 3 participants per team).
 - b. Publish it on github or another open-source code platform.
 - c. Publish a post or article in Medium explaining the project.
2. Attend the sessions regularly, at least 70%.
3. Complete the assigned itinerary, which will represent ~ 50% of the pedagogical content.

Alumni Network

Participants who obtain the Diploma will be automatically admitted to the Saturdays.AI Alumni Network. You'll have access to exclusive opportunities from our partners.

Diploma (Certificate)



Saturdays.AI

Certificates

Erik B. Terres

has successfully completed the 1st edition of the AI Saturdays program in

Bilbao, with a mention in **Machine Learning**

They have completed 160 hours with the presentation of a final project "JABA (Just Another Bitcoin Analyzer)"

Miguel Guerrero Manchón

President Saturdays.AI

3th July, 2021




Behat Galdós & Joxemari Gallastegi

AI Saturdays Euskadi organizers

Typical Saturday/Week

Saturday

13:00h **Lectures // Practice**

16:00h **Break**

16:30h **Practice // Speaker**

Rest of the week

Challenge

- Every Saturday you will practice with an exercise in a Jupyter notebook.
- The practice should be ended before that day.

- After each Saturday, we will release the challenge for the week.
- That challenge must be delivered before next Saturday (you have one week to complete it).
- We will give you feedback on it.



Basic Rules

To help our mission to make AI accessible to anyone and being part of Saturdays.AI as a member means adhering to the following rules:

- **Respect:** Treat peers, mentors, and diverse perspectives with courtesy
- **Punctuality:** Be on time for classes and submissions
- **Attendance:** Show up — learning is a shared experience
- **Help:** Support your peers when they're stuck
- **Communicate:** Ask questions, give feedback, stay connected
- **Integrity:** *Okay, let's pause and talk about this*

Why Integrity Matters in This Course

Integrity means doing the right thing even when no one is watching. Integrity isn't just about rules – it's the foundation of meaningful learning and responsible AI.

Honesty in Learning

- No copying, plagiarism, or shortcircuiting
- Your work should reflect **your understanding**
- This is how real learning – and real growth – happens

Trust in Collaboration

- Be reliable in teams
- Contribute fairly
- Share credit and responsibility

Ethics in AI

- You're building systems that **impact real lives**
- Integrity means thinking beyond accuracy:
 - → Is this fair? (Using biased data? Faking results?) Is this safe? Should we build it?

**Any
questions?**



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Don't be scared

Test time!

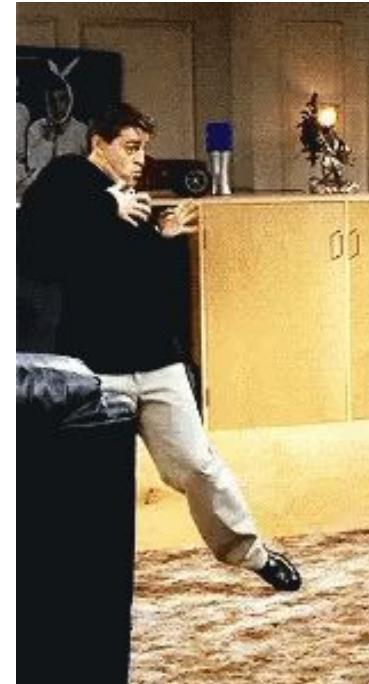


- In this test ([link](#)) you will be asked more about your Python knowledge
- Make sure you remember your score and **percentile** number!

*Remember: this is not an exam or comparison, just our way to better
organise the lessons!*

Time to know each other

- Look at your right. Who is there?
- From now on. you have 2 mins to ask:
 - their name
 - their hobbies
 - whatever you want (maybe number 😊)
- Now, tell us in 1 min:
 - what is their name?
 - what's the thing that surprised you the most about that person?



ARTIFICIAL INTELLIGENCE



This is a Curdim



Where is the Curdim?



A



B



C

Yes but... I lied

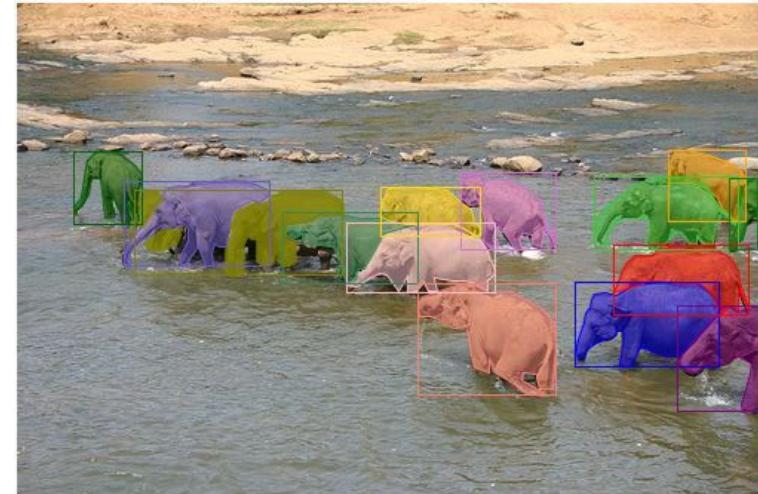


C

Features/Attributes



Features are used to train an ML system. They are the properties of the things you are trying to learn about.



How do I pick the right data to train a model?

Data Hunting

We want to write a model that can identify caries and gum disease. We need at least 10,000 pictures of teeth, 50% healthy and 50% unhealthy.

- Who is going to give you that data?
- Dentists have confidentiality clauses
- How does it benefit them?
- Maybe an insurance company but it won't sell it for free.

ML cannot predict what it doesn't know

Imagine you have an ML system to detect cats, chickens and dogs.

Given a cow, 4 legs, black and 200 kgs...

What would it predict?

ML cannot predict what it doesn't know

Imagine you have an ML system to detect cats, chickens and dogs.

Given a cow, 4 legs, black and 200 kgs...

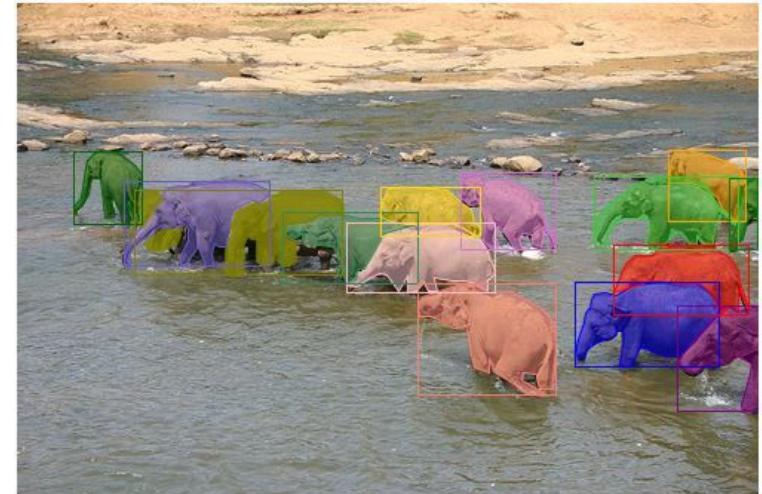
... it will predict a dog.

In the AI model “universe”, cows do not exist.



Features/Attributes

Features are used to train an ML system. They are the properties of the things you are trying to learn about.



What: Interesting applications of AI





Coarse styles
 $(4^2 - 8^2)$

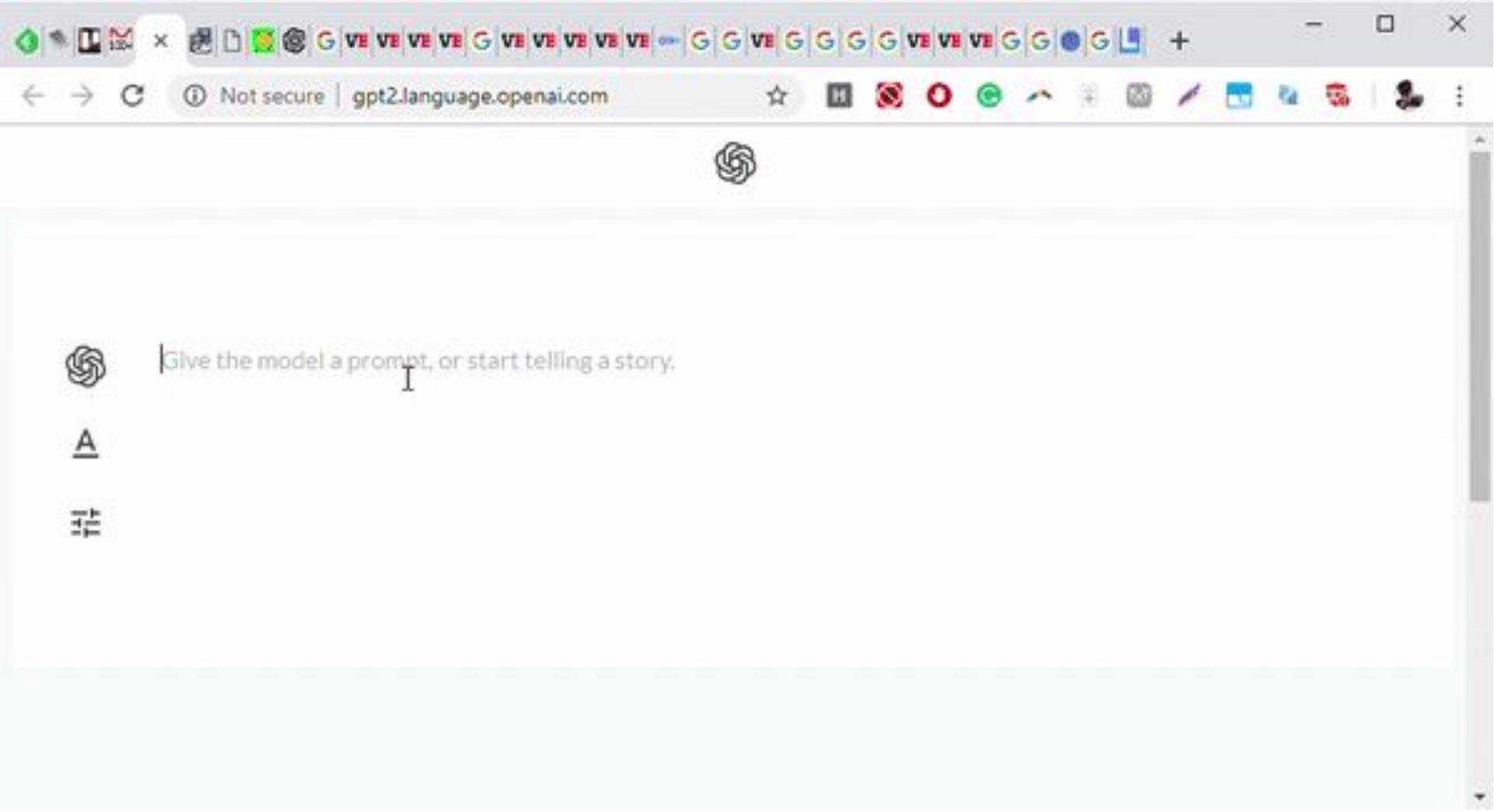


Middle styles
 $(16^2 - 32^2)$

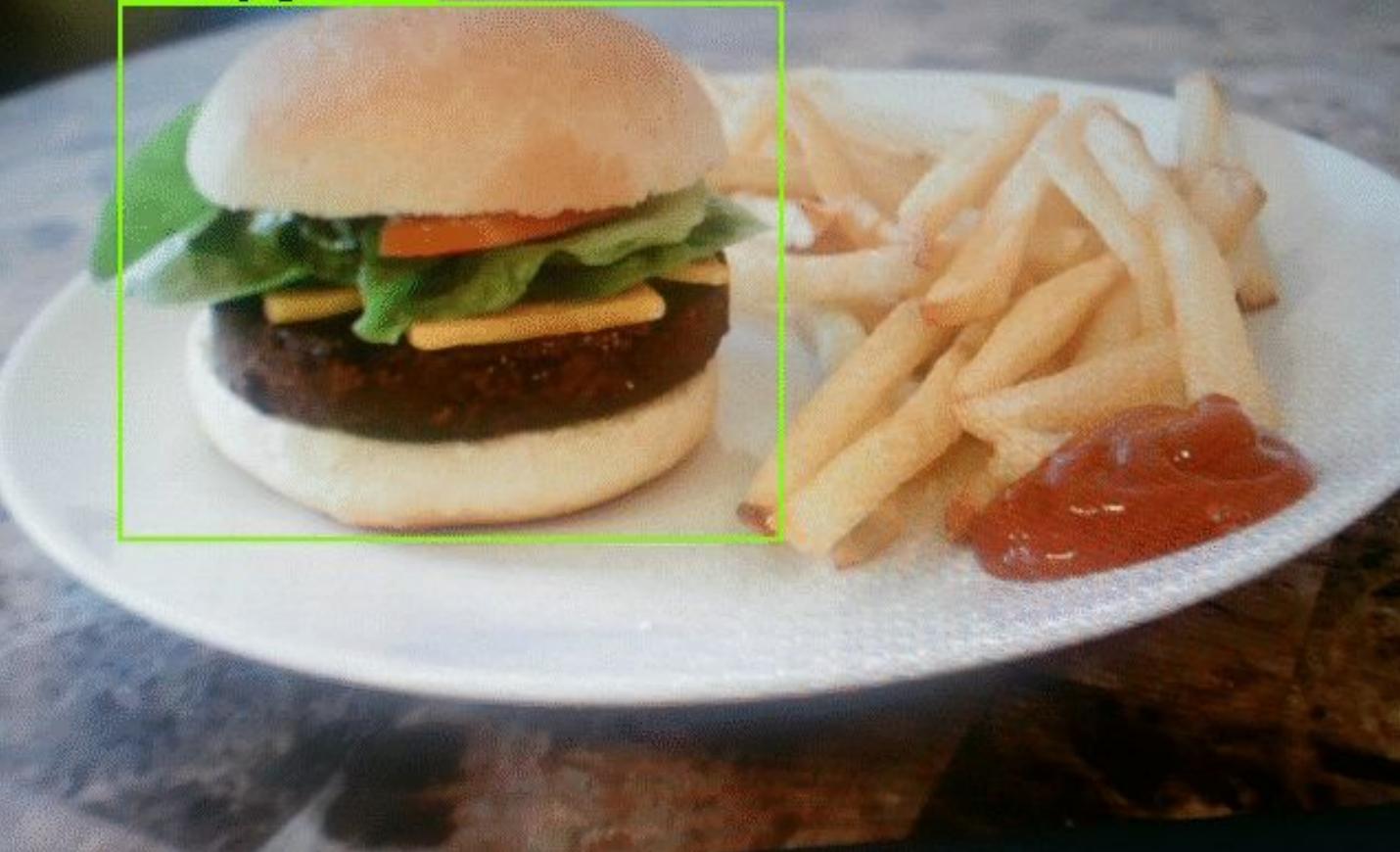


Fine styles
 $(64^2 - 1024^2)$





cheeseburger_475cal: 99%



Sketch2Code

Sign Up Login

Name

Last Name

Phone

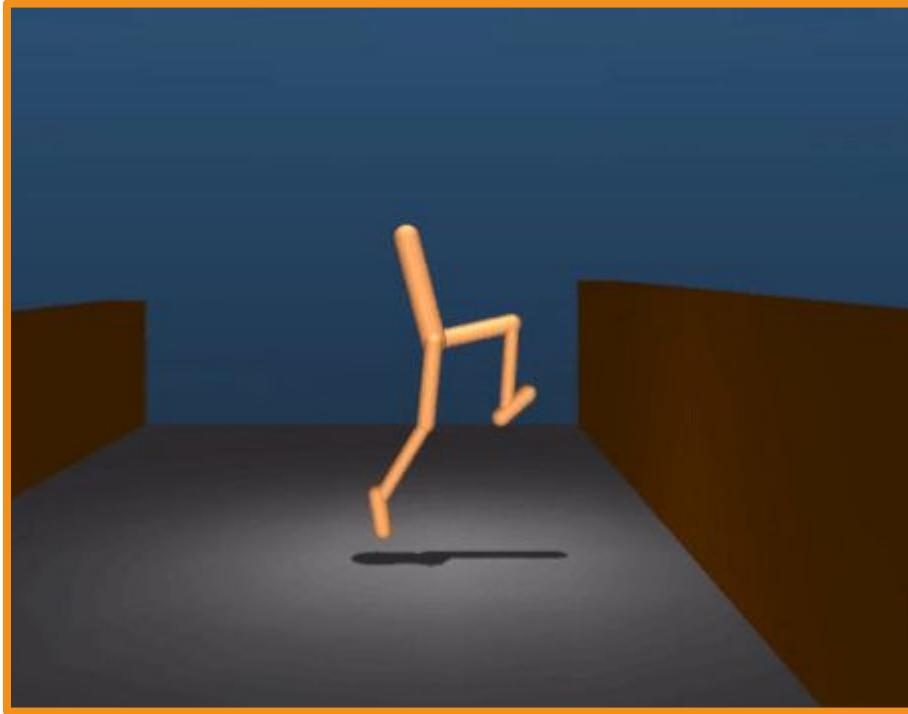
e-mail

Password

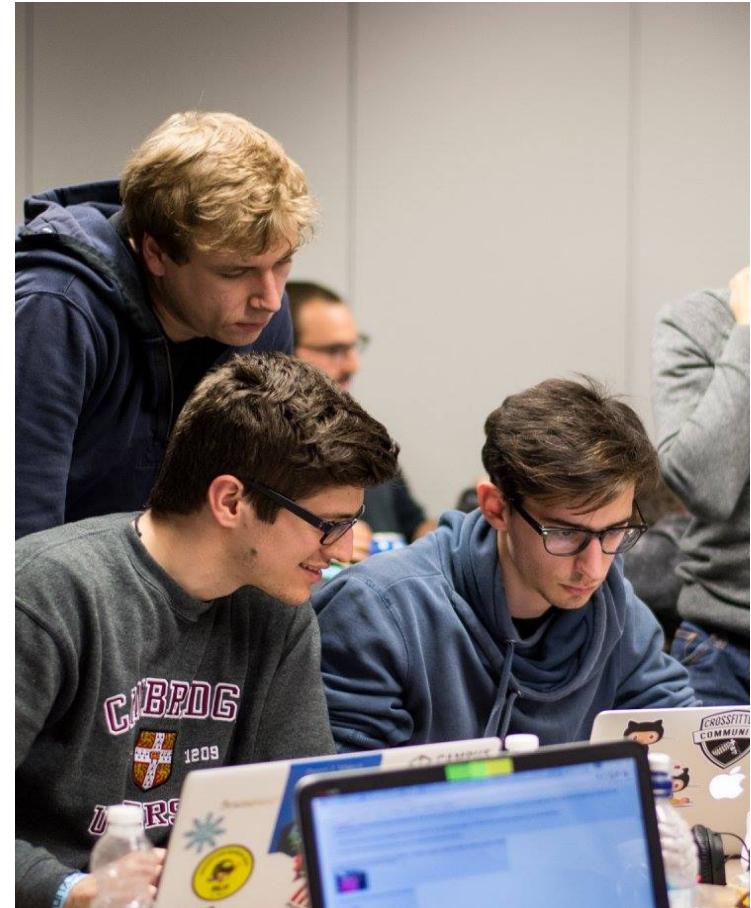
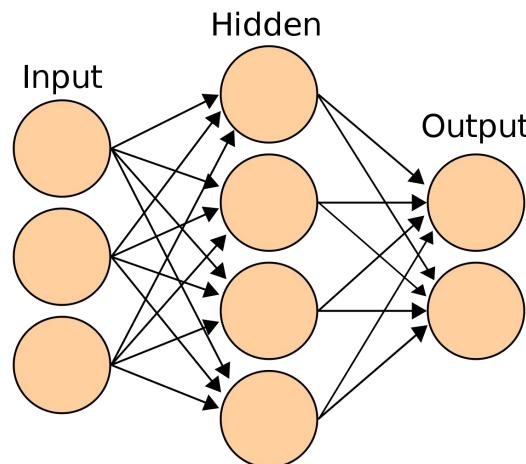
Confirm Password

I agree to Terms and Conditions

Sign up



Who am I?

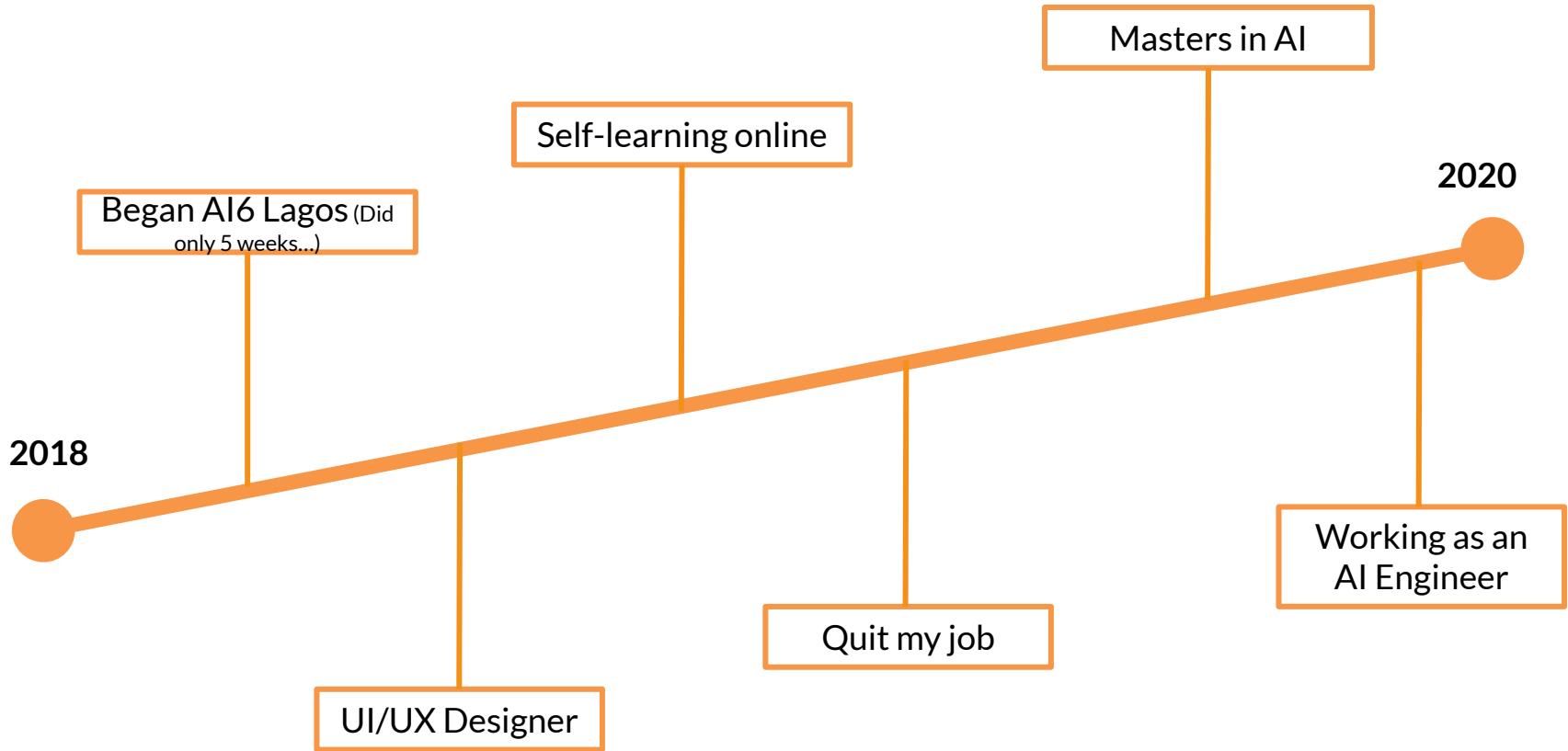


HOW IT ALL BEGAN



My AI Journey

My story...



FOLLOW YOUR PASSION



But don't forget to be open-minded
The world is interconnected

A photograph of a group of people running in a race. In the foreground, a man in a black shirt and shorts is smiling and making a peace sign with his right hand. Behind him, another runner in a dark shirt and shorts is also smiling. The background shows more runners and a hilly, foggy landscape.

ATTITUDE > SKILLS

You set your own limitations
Anything can be learned

WORK IN SILENCE

A photograph of several people working individually or in small groups at their desks in an office environment. They are focused on their laptops, with one person in the foreground looking directly at the camera. The scene is set against a bright, modern office backdrop.

Ignore the noise, focus on achieving results
Don't compare yourself to others

TEAM > GOING SOLO

Surround yourself with people
that are better than you



BE PERSEVERANT

A photograph of a person rappelling down a steep, rocky cliff face. The climber is wearing a helmet and safety gear, and is attached to a yellow rope. The background shows more of the rugged terrain under a clear sky.

Hard work beats talent
when talent doesn't work hard

What is your purpose?

Take a piece of paper and a pen...

Why are you here?

Think about your answer and
ask yourself why again...

Write down your reasons in
20 seconds.

And again...



And remember...

Break down your goals.

Focus on the small wins...

Am I gonna show up next Saturday?

Am I gonna deliver the weekly challenge?

Am I gonna ask for help when I needed?



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Partners Appreciation

Special shout-out to our partners for helping us to bridge the skills gap of the 4th industrial revolution, AI.

FAIR FORWARD

Artificial Intelligence for all.



Digital
Transformation
Center Rwanda



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**Any
questions?**



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Let's get ready for the course!



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THANKS



kigali@saturdays.ai



coming soon



coming soon