TEACHER AI

TEAM: Milanesiimbruttiti
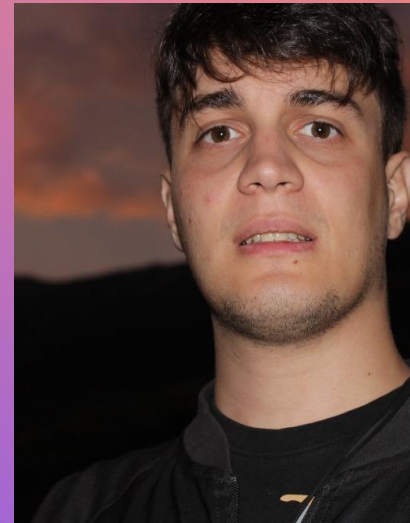
TEAM

Andrea Ierardi

ML Engineer

Matteo Pasotti

Data Science Student &
Software Dev

Marco Vinciguerra

Computer System Student

Alessandro Belotti

Data Science Student

Introduction

Teacher AI is a web application with a professor generated by Artificial Intelligence. It presents elementary lesson about different topics: English, Science and Math. The main objective is to guarantee education in different part of the world, especially countries that do not allow a decent level of education for children.
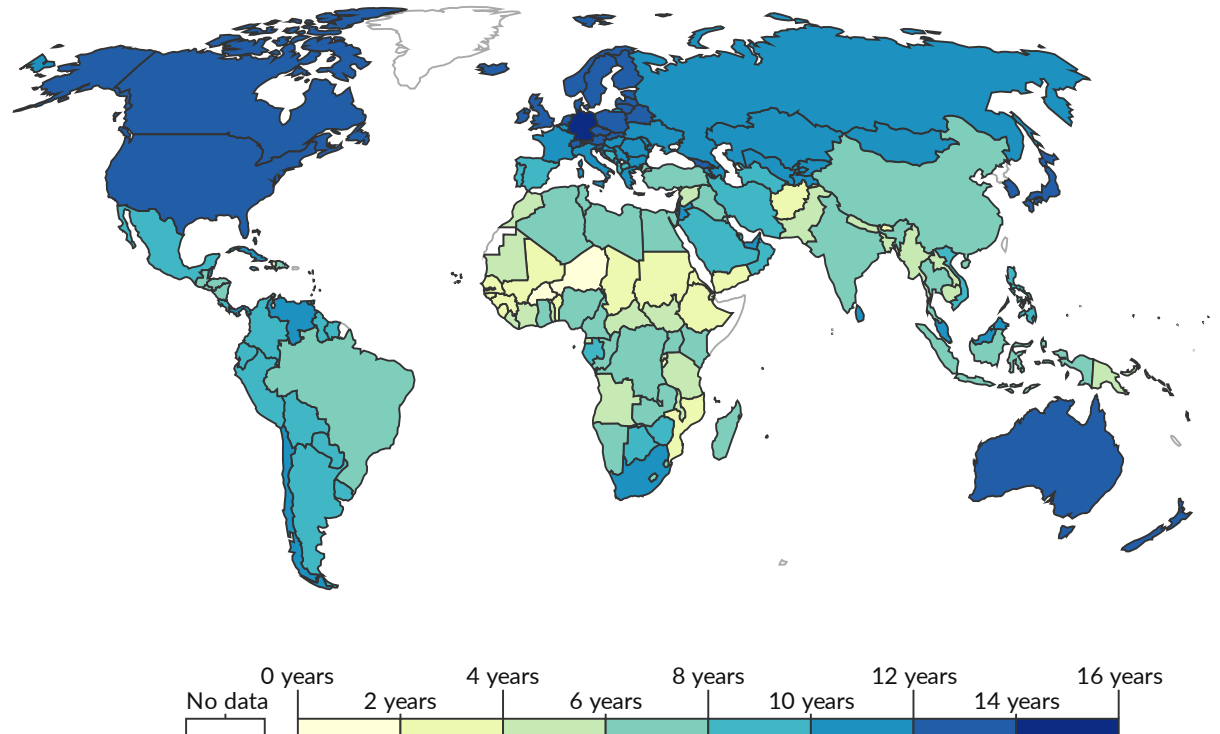
The issue: same world but different educational level

Average years of schooling, 2017
Average number of years people aged 25+ participated in formal education.

Our World in Data

| No data | 0 years | 2 years | 4 years | 6 years | 8 years | 10 years | 12 years | 14 years | 16 years |

Source: Lee-Lee (2016); Barro-Lee (2018) and UNDP HDR (2018)   OurWorldInData.org/human-development-index • CC BY
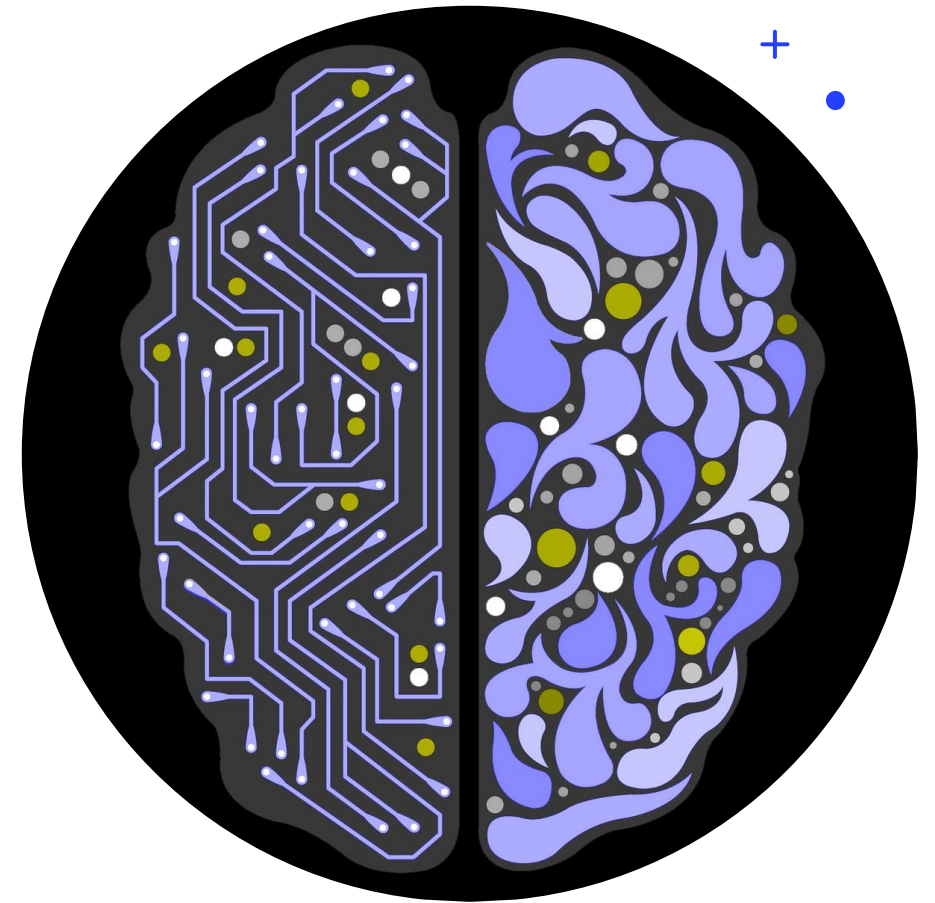Note: Formal education is primary/ISCED 1 or higher. This does not include years spent repeating grades

Source: Global Education - Our World in Data

Our solution

Develop a Web App to help the spreading of knowledge among children in underdeveloped countries and where there is no availability of teachers.

Teacher AI can take a leisure by a given syllabus, it can organize lessons weeks by weeks.

AI Teacher Project

Target

- Children between 5-12 in underdeveloped countries

- Children in every part of the world that need an educational reinforcement

Aim

- Improve quality of education

- Guarantee a decent level of education in every part of the world

- Educate children on Artificial Intelligence

Business Plan

Since Teacher AI is a no profit organization, all the revenue will be invested in the platform with the aim to share knowledge and gain educational level in the third-world.

The source of income should come from a person able to afford the donation of a subscription to a person in need
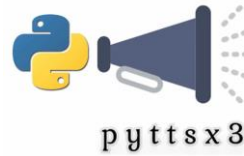
Possible price can be a donation of *7,99 USD /month* minimun for one person and *19,99USD/month* for three people.

→ Costs are *affordable* since the price is based mainly on the cost of API and management cost.

Tools and Models

Tools

- Jupyter Notebook for primary experimental phase.

- Streamlit to create and deploy the WebApp.

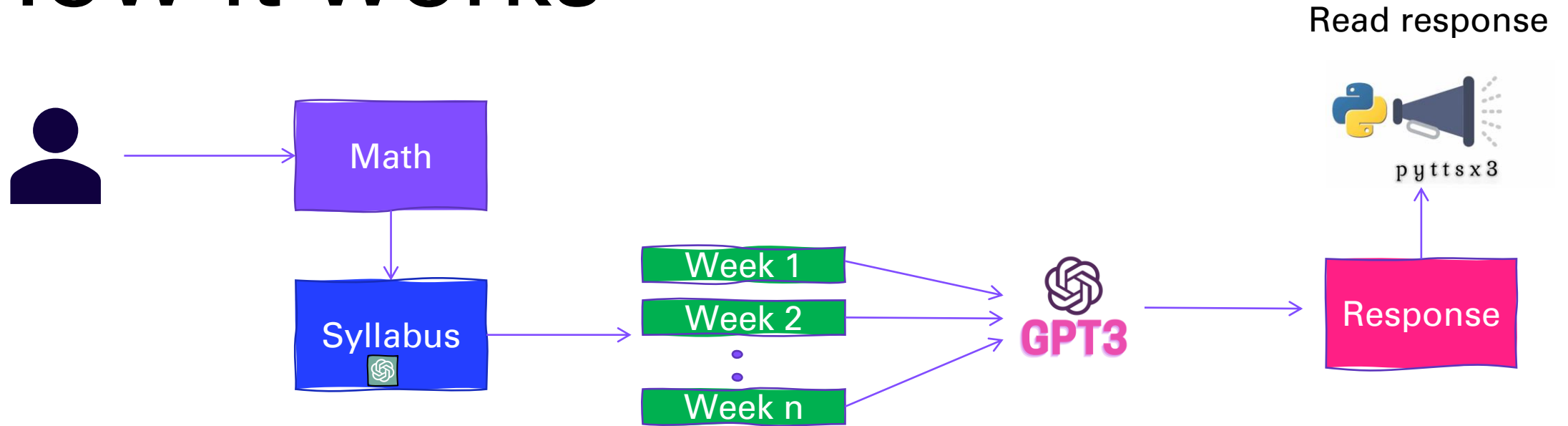- Pyttsx3 package for text to voice.

Models

- ChatGPT for generating syllabus.

- GPT3 to generate text of the lesson.

How it works

- The headmaster chooses the subject in the select box.
- Teacher AI takes the topics from the syllabus selected and ask to GPT the explanation about it.
- When the system gets the response, it's read with the pyttsx3 function.

DEMO

You can try our prototype at the following link: [Streamlit](#)

Future Steps

- Implement with ChatGPT API

- Allow a tutor to plan a week.

- Allow the possibility to add custom syllabus by a children tutor