

Tech for good Workshop

ImaginCafé

Celsa Díaz
Ai Instructor at allWomen

Workshop Content

- I. One solution for each type of problem
- II. Use cases
- III. Build your first interactive visualization

I. One solution for each problem

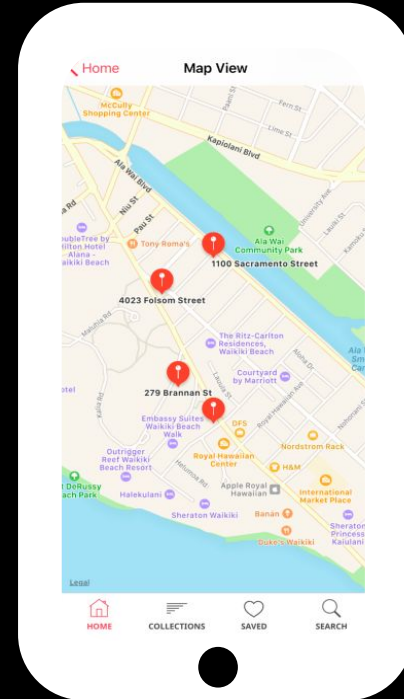
Interactive Visualization

- Denounce social injustice
- Engage citizens in social problems
- Open knowledge to the society



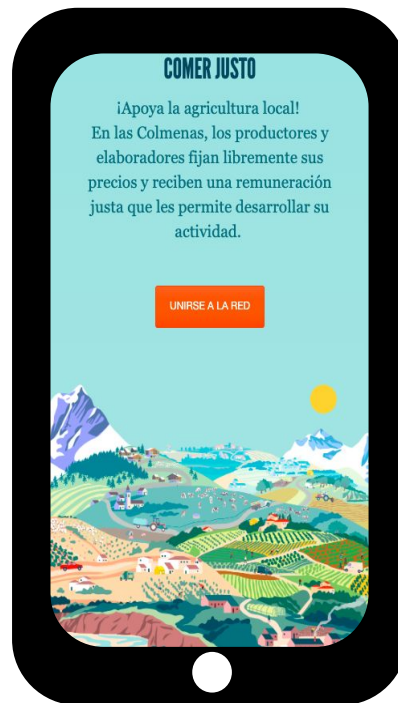
Event Geolocation

- Support social initiatives by geolocating them
- Denounce events
- Find areas of interest for minorities



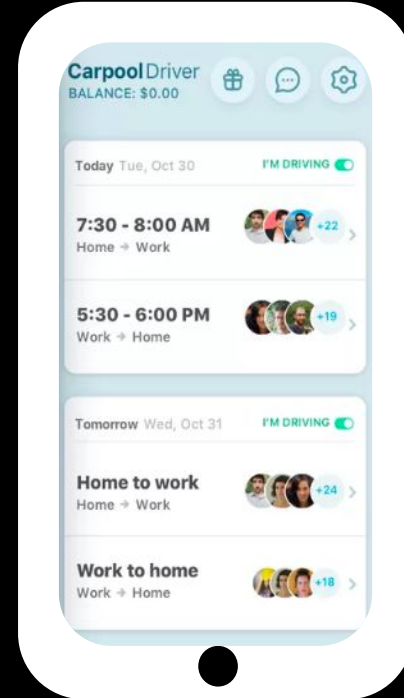
Coordination Platform

- Coordinate small producers for complete services
- Coordinate collective decision making
- Food-cops cooperation
- Liquid democracy tools



Sharing Platform

- Share resources to decrease the ecological footprint
- Share goods to reduce consumption



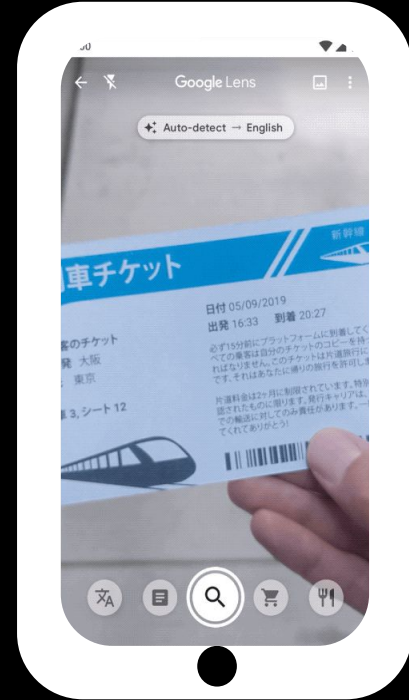
Forecasting Tool

- Track a behavior and help users to predict future events
- Help planning and trigger changes on habits



Ai Assistant

- Cross barriers for people with limitations
- Reader & Translator assistance



MCKINSEY GLOBAL INSTITUTE

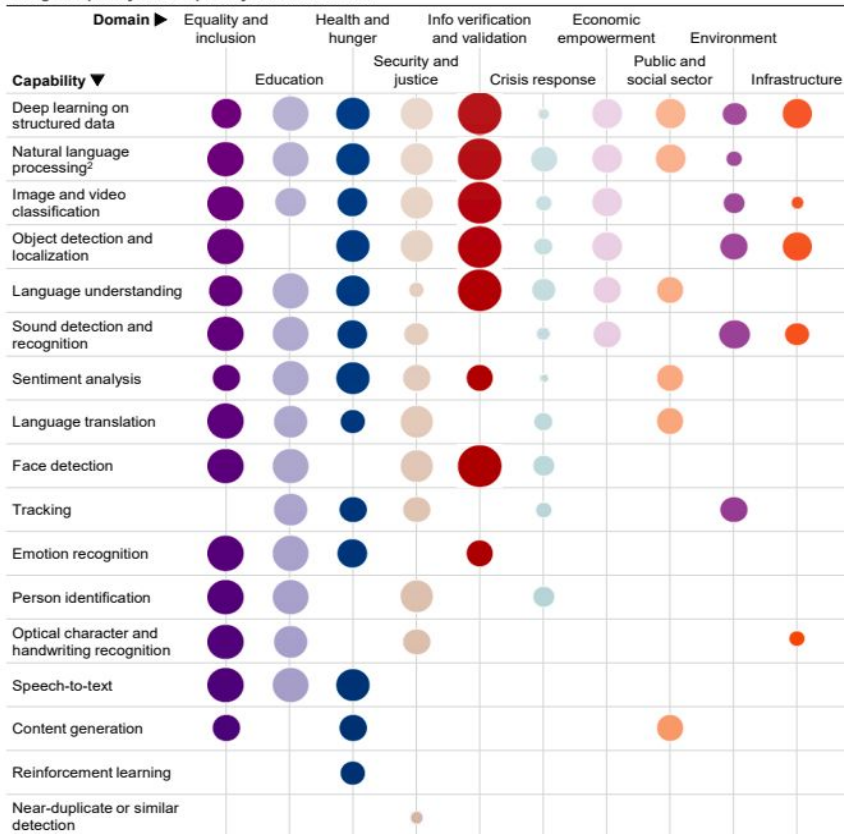
NOTES FROM THE AI FRONTIER APPLYING AI FOR SOCIAL GOOD

DISCUSSION PAPER
DECEMBER 2018

Mapping usage frequency of AI capabilities to ten social impact domains identifies patterns of the relevance and applicability of AI for social good.

Lower Higher

Usage frequency of AI capability for each domain



Usage frequency of analytics capability for each domain



II. Use Cases

Sexual Misconduct Tracker

Sexual Misconduct Tracker

Empathize

Problem
Definition

Ideate
Solution

Build
Prototype

Test

A word cloud of terms related to sexual misconduct and its psychological impacts. The words are arranged in a circular pattern around the central word 'Fear'. The words are: societal blaming, Fear, further abuse, shame, embarrassment, manipulation, Who will believe me?, financial dependence, humiliation, workplace retaliation, reliving the experience, isolation, trauma, and family ties. The words are in various shades of red and pink, with 'Fear' being the largest and most prominent.

societal blaming
Fear
further abuse
shame
embarrassment
manipulation
Who will believe me?
financial dependence
humiliation
workplace retaliation
reliving the experience
isolation
trauma
family ties

Sexual Misconduct Tracker

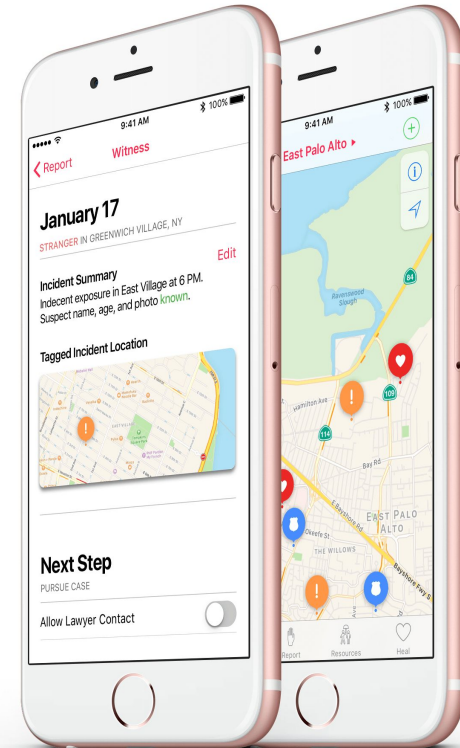
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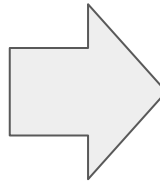
Test



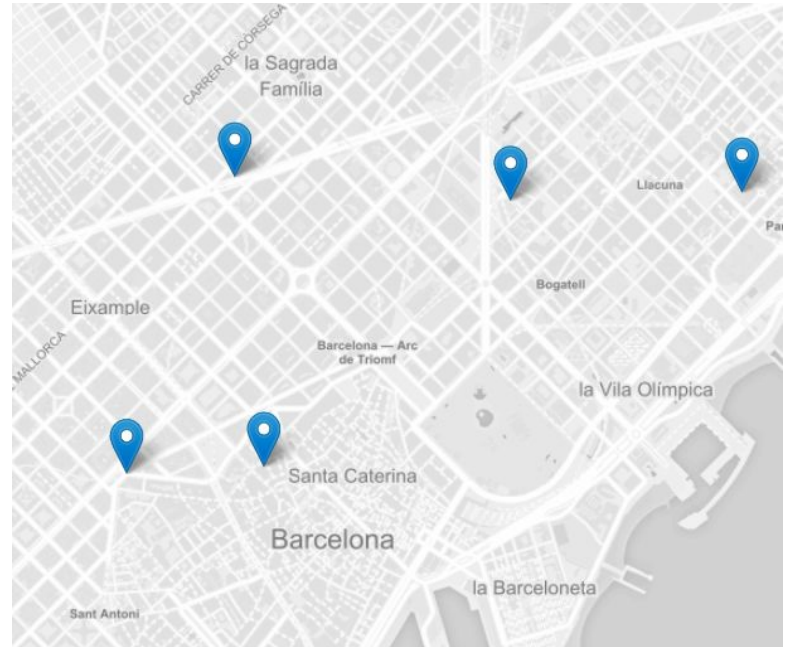
Mapping: Leaflet

database

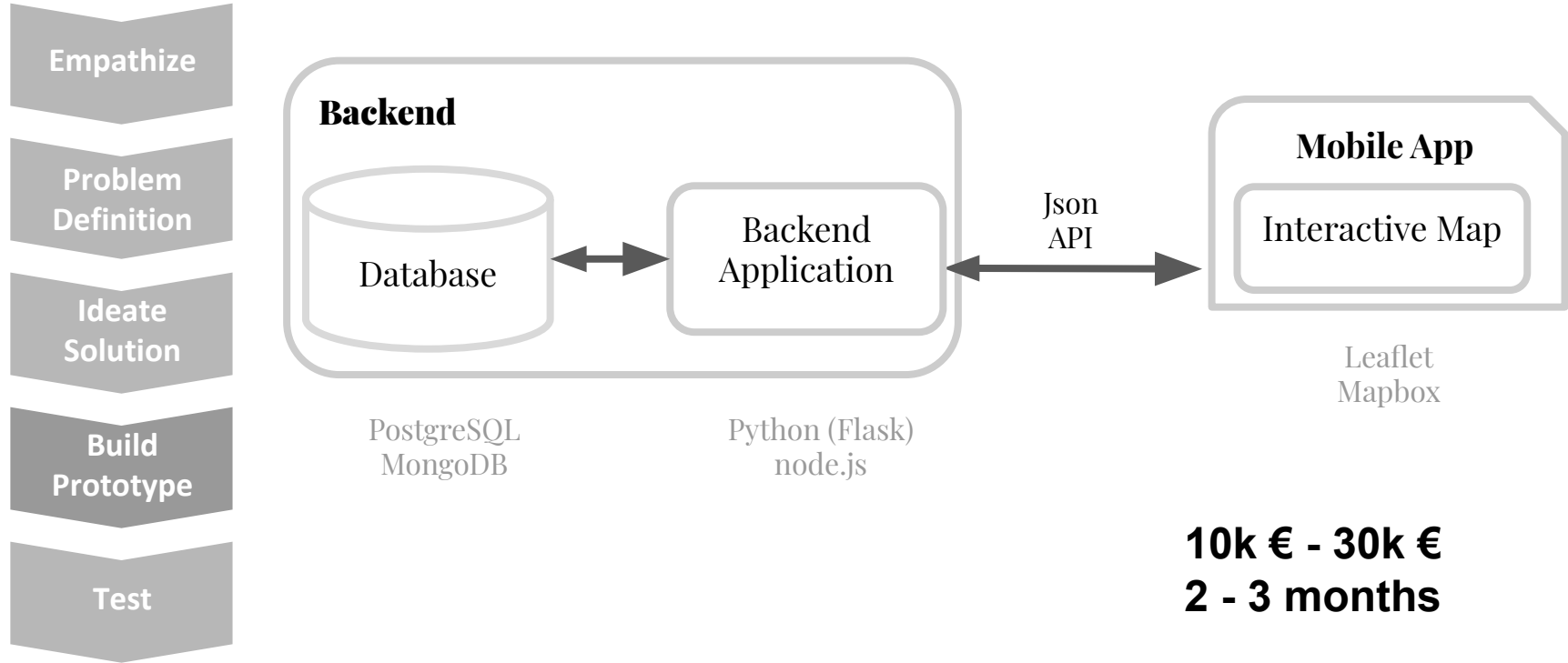
```
[  
  {  
    "type": "something",  
    "latitude": 42.48724,  
    "longitude": 2.48328  
  }  
]
```



map



How to make it happen?



Tenant Harassment Forecast

Tenant Harassment in NYC

Empathize

Problem Definition

Ideate Solution

Build Prototype

Test



Forecast high risk tenants

Empathize

Problem
Definition

Ideate
Solution

Build
Prototype

Test



Mapping: Folium

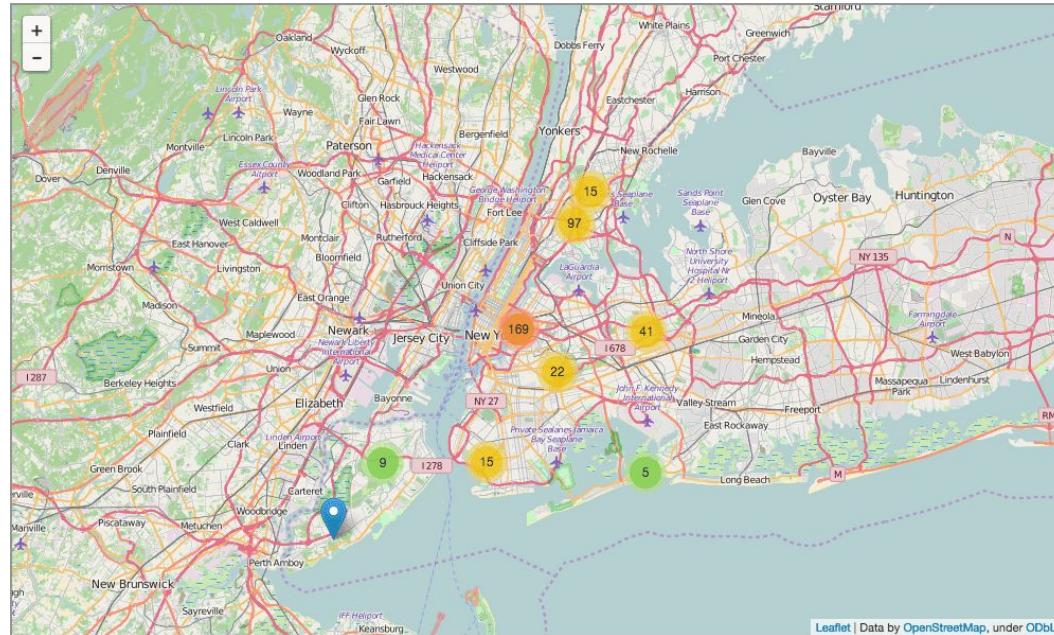
Empathize

Problem
Definition

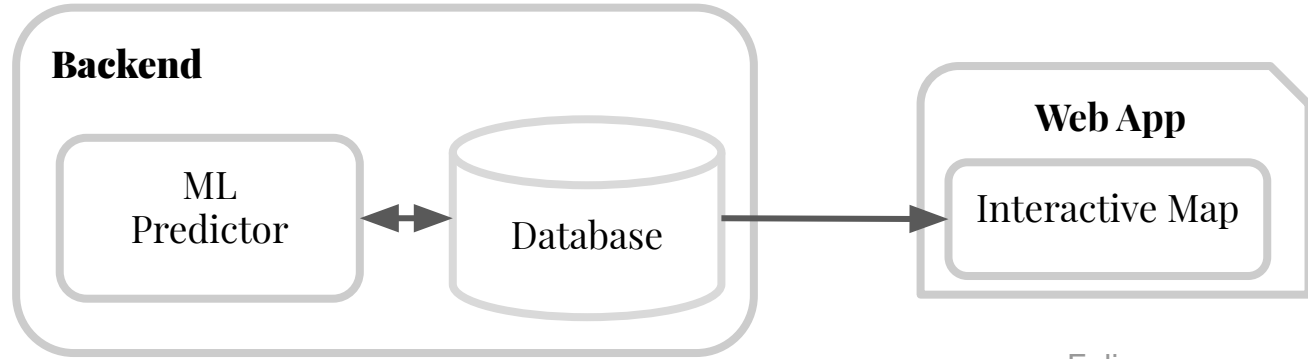
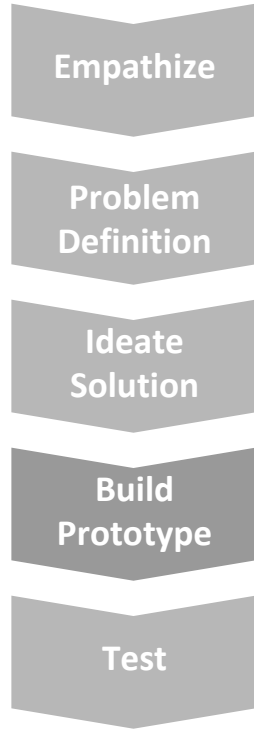
Ideate
Solution

Build
Prototype

Test



How to make it happen?



Python
Sklearn

PostgreSQL
MongoDB

Folium

2k € - 4k €
1 - 2 months

Job Post Bias Correction

Job Post Bias Correction

Empathize

Problem Definition

Ideate Solution

Build Prototype

Test



Job Post Bias Correction

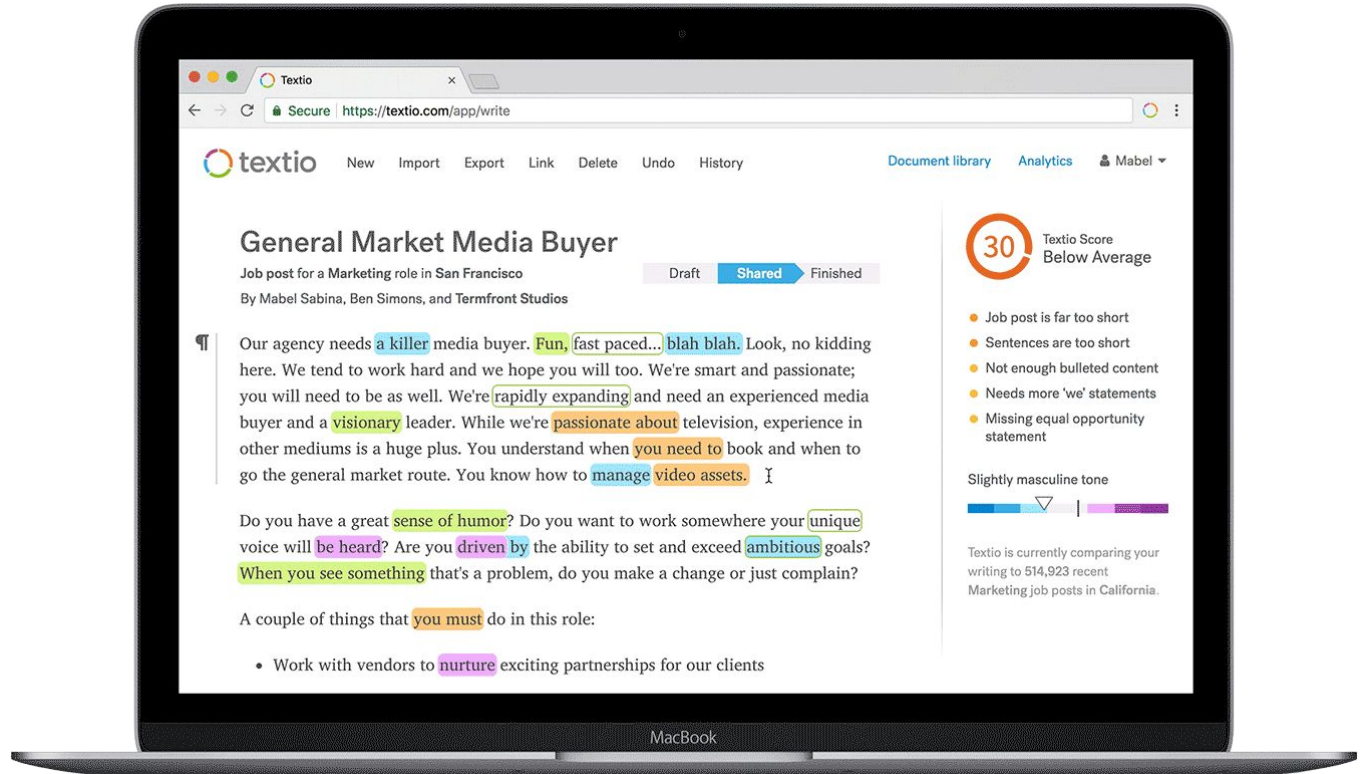
Empathize

Problem
Definition

Ideate
Solution

Build
Prototype

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Augmented Writing

Empathize

Problem
Definition

Ideate
Solution

Build
Prototype

Test



5% Higher
Male
Candidates

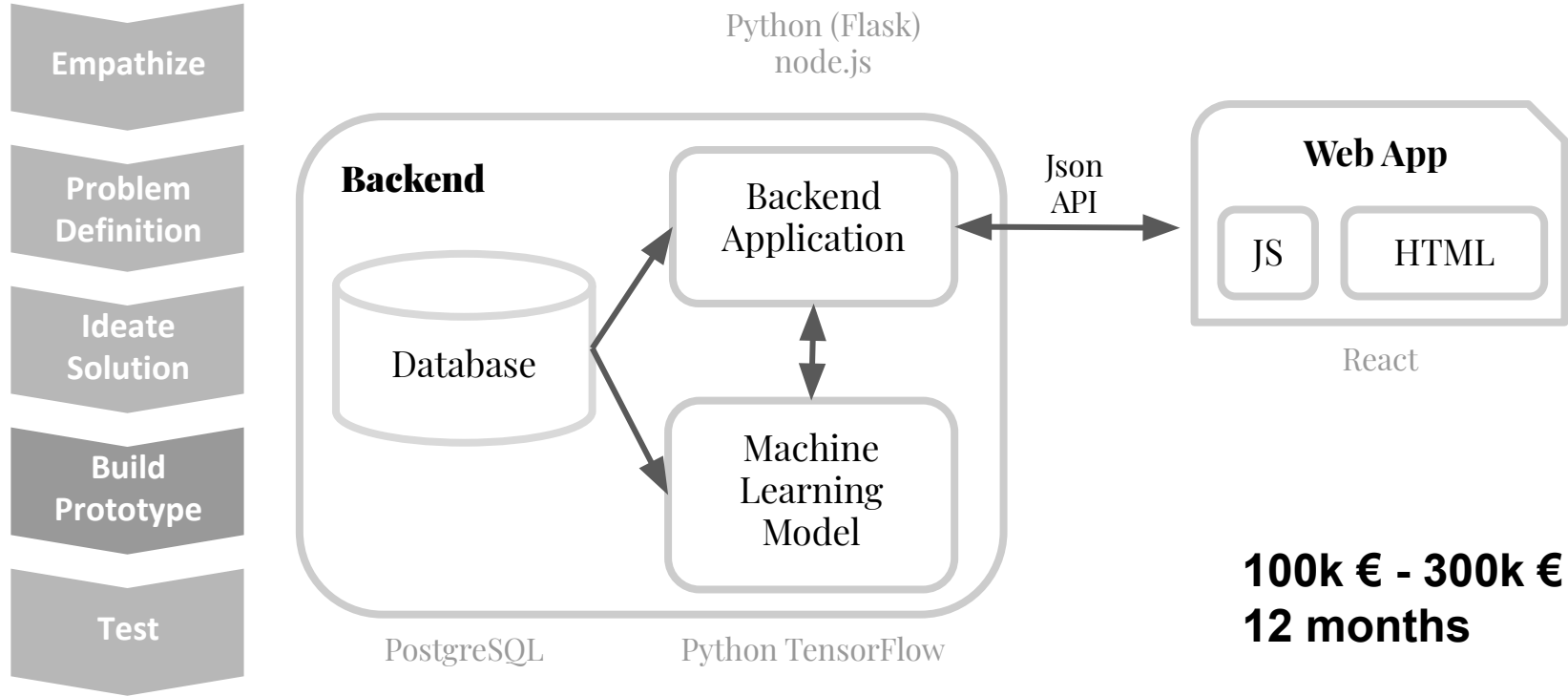


Average



8% Higher
Female
Candidates

How to make it happen?



Pre-trained models

Empathize

Problem
Definition

Ideate
Solution

Build
Prototype

Test



Reference

image

imageClassifier()
poseNet()
bodyPix()
UNET()
styleTransfer()
pix2pix()
CVAE()
DCGAN()
SketchRNN()
YOLO()

sound

soundClassifier()
pitchDetection()

Getting Started **Reference** Community About

image

imageClassifier()



poseNet()



bodyPix()



UNET()



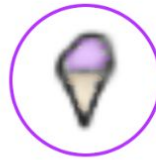
styleTransfer()



pix2pix()



CVAE()



DCGAN()



Pre-trained models

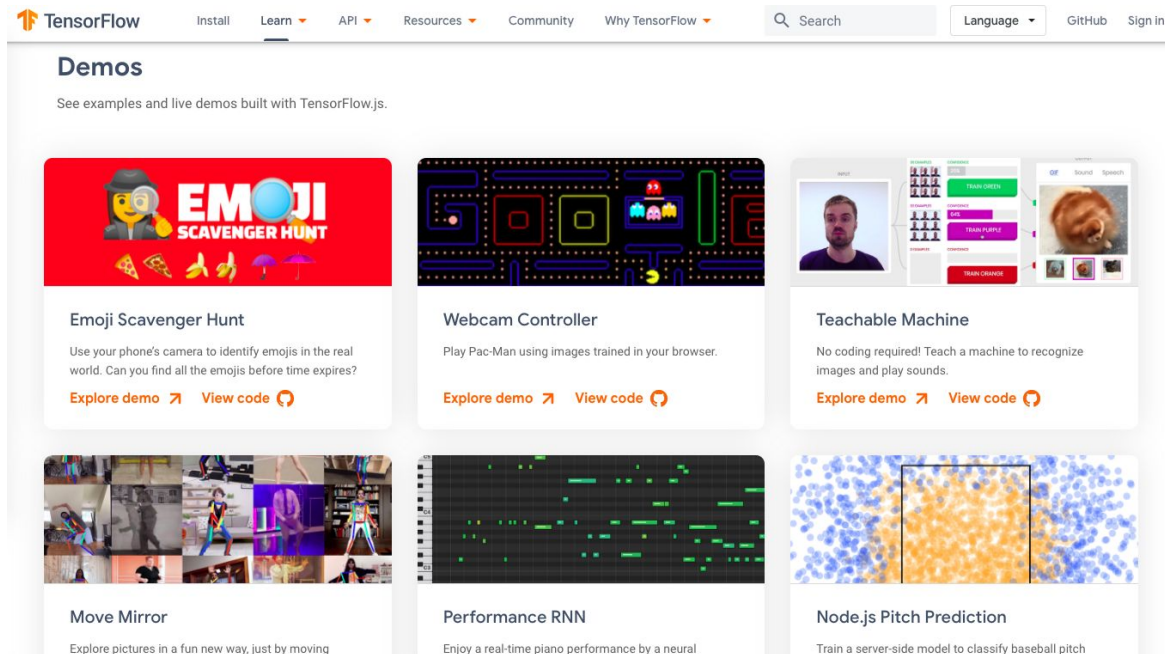
Empathize

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The screenshot shows the TensorFlow Demos website. The header includes the TensorFlow logo, navigation links (Install, Learn, API, Resources, Community, Why TensorFlow), a search bar, and a language selector. The main section is titled "Demos" and contains a grid of demo cards. Each card features a thumbnail image, a title, a brief description, and links to "Explore demo" and "View code".

TensorFlow Install Learn API Resources Community Why TensorFlow Search Language GitHub Sign in

Demos

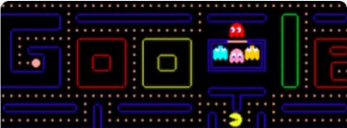
See examples and live demos built with TensorFlow.js.



Emoji Scavenger Hunt

Use your phone's camera to identify emojis in the real world. Can you find all the emojis before time expires?


[Explore demo](#) [View code](#)



Webcam Controller

Play Pac-Man using images trained in your browser.


[Explore demo](#) [View code](#)



Teachable Machine


No coding required! Teach a machine to recognize images and play sounds.

[Explore demo](#) [View code](#)



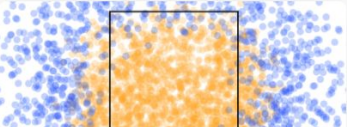
Move Mirror

Explore pictures in a fun new way, just by moving



Performance RNN

Enjoy a real-time piano performance by a neural



Node.js Pitch Prediction

Train a server-side model to classify baseball pitch

Build your first interactive visualization!

Go to this [notebook](#) and save a copy in your Google Drive

Enroll now for the next Course in Sep 19

laura@allwomen.tech
celsa@allwomen.tech

