Test your Origin

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01 _ Project Overview

POINT

A face recognition AI tells the user where he/she is originated from by look

DESCRIPTION

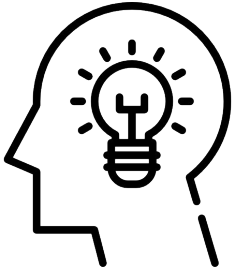- The user upload his/her picture on the web page

- Match and display the user's origin

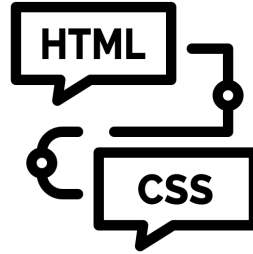- Gives a brief explanation of the user's origin

- Show result on each percentage of different origin

01 _ Project Overview

The purpose of this project

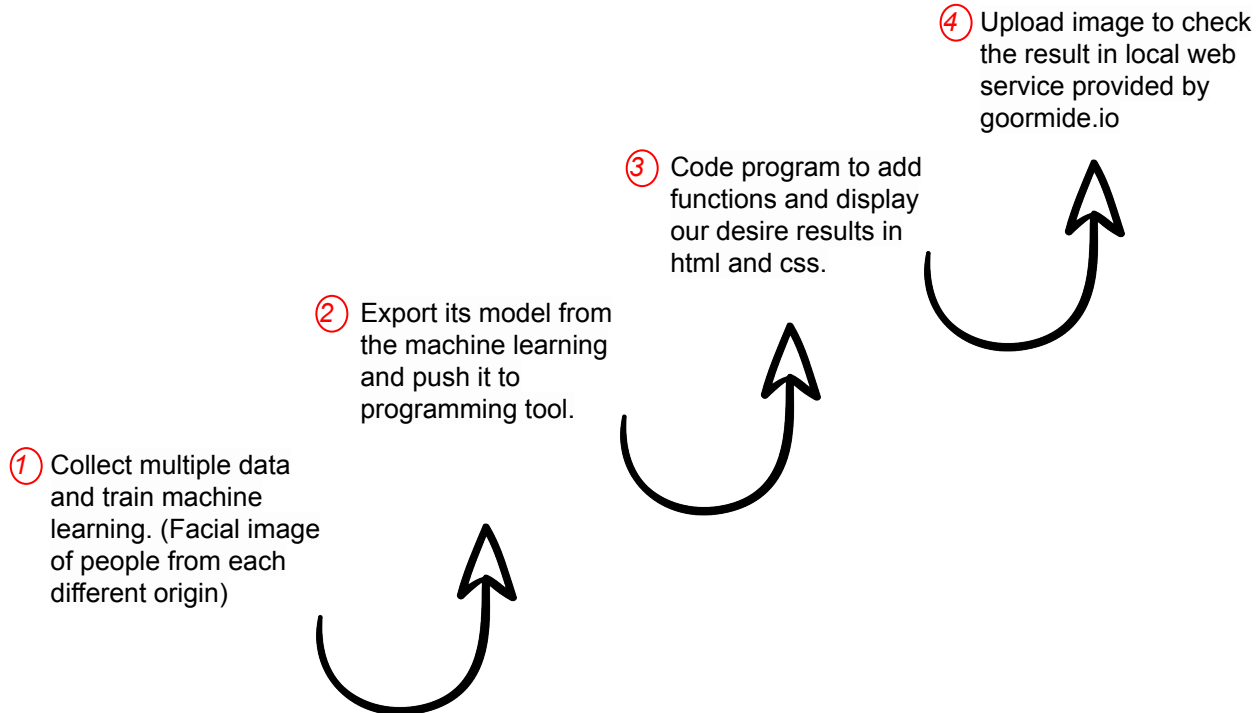To understand the **basic concept** of AI using machine learning

To improve our **skills** in Javascript and web design

To gain real-life **experience** indirectly

Basic structure

④ Upload image to check
the result in local web
service provided by
goormide.io

③ Code program to add
functions and display
our desire results in
html and css.

② Export its model from
the machine learning
and push it to
programming tool.

① Collect multiple data
and train machine
learning. (Facial image
of people from each
different origin)

02 _ Overview of Architecture

Related work

| ❶ AI Fruit Book | ❷ Emotion Learning AI | ❸ AI Fitness Trainer |

AI looks at camera images, distinguishes fruits, and informs characteristics.

AI tells the user's emotion by collecting facial image from the user.
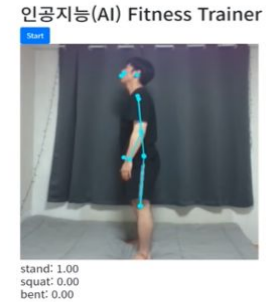
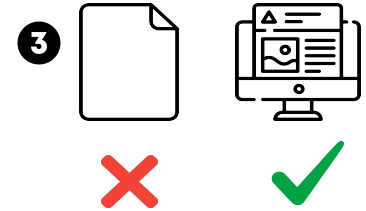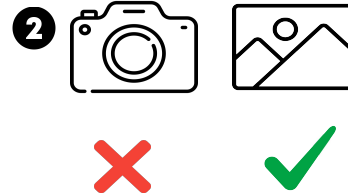The number of exercises is counted with Post Recognition AI.

03_ Construction of the Project

Method(1)

'What can we do for this project?'
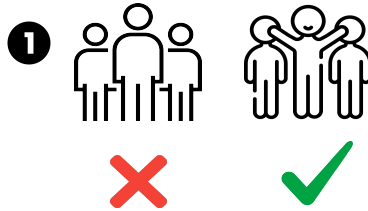
03 _ Construction of the Project

Method(2)

STEP 1

Manchurian

Anglo-Saxon

Han

Latin → 📁 ← Viking

Mongolian

Malay

etc...
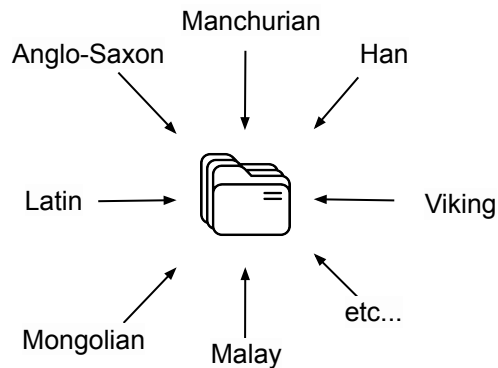
"Total of **15 origins**"
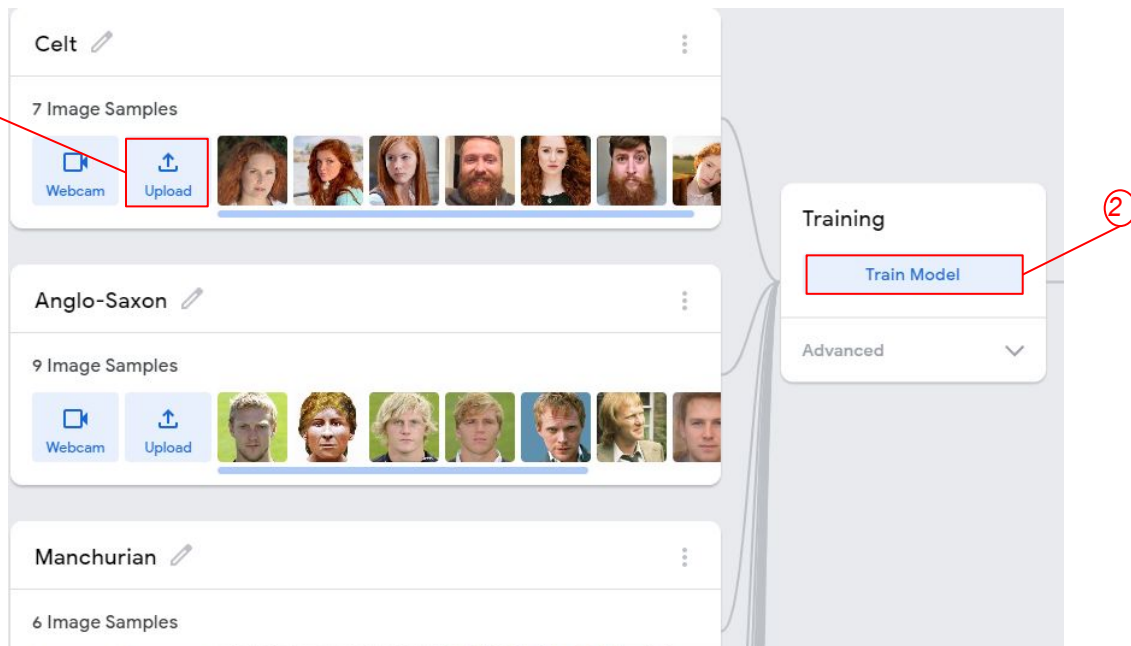
03 _ Construction of the Project

Method(3)

STEP 2

Method(4)

STEP 3

03 _ Construction of the Project

Method(5)

STEP 4
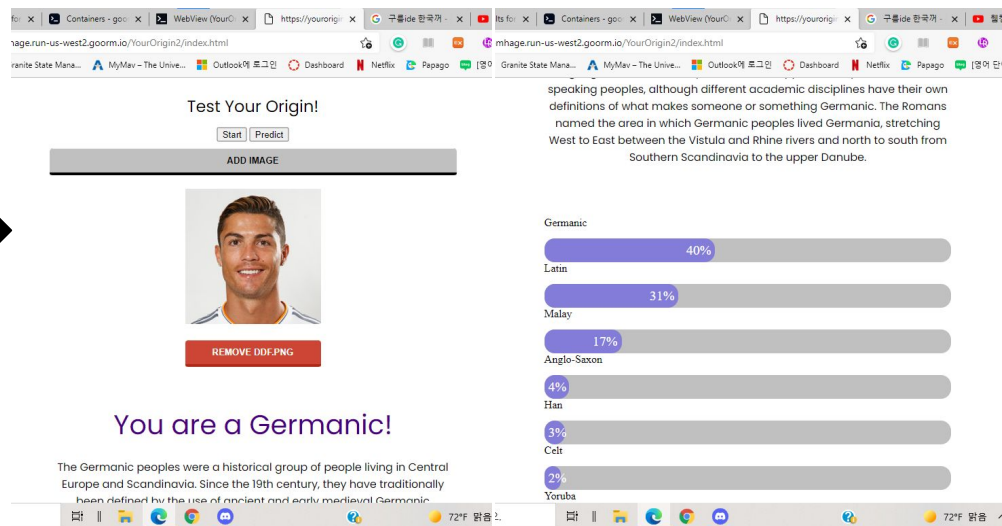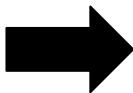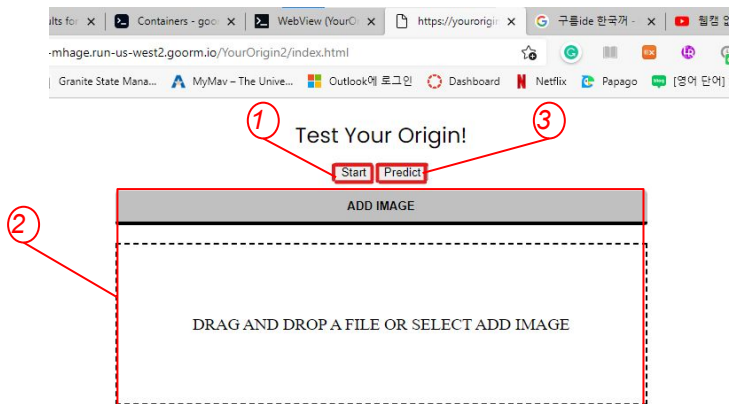


```
182         case 'Zulu':
183             resultExplain =
184                 'Zulu people are an Nguni ethnic group in Southern Africa. The Zulu people are the larges...
185             break;
186         case 'Yoruba':
187             resultExplain =
188                 'The Yoruba people are a Sub-Saharan African ethnic group who inhabit West Africa and mainly
189             break;
190         default:
191             resultExplain = 'N/A';
192     }
193     document.getElementById('print-explain').innerHTML = resultExplain;
194
195     var barWidth;
196     for (let i = 0; i < maxPredictions; i++) {
197         barWidth = Math.round(prediction[i].probability.toFixed(2) * 100) + '%';
198         var label =
199             "<div class='race-label d-flex align-items-center'>" +
200             prediction[i].className +
201             '</div>';
202         var bar =
203             "<div class='container'><div class='skill' style='width: " +
204             barWidth +
205             "'>" +
206             barWidth +
207             '</div></div>';
208         labelContainer.childNodes[i].innerHTML = label + bar;
209     }
210 }
211 </script>
212 </body>
213 </html>
```

②

```
1   body {
2       background-color: #ffffff;
3   }
4
5   .title {
6       font-family: 'Poppins', sans-serif;
7       font-size: 1.5em;
8       text-align: center;
9   }
10
11  .wrapper {
12      float: left;
13      width: 100%;
14      text-align: center;
15      position: relative;
16      top: 50%;
17      left: 50%;
18      transform: translate(-50%, -50%);
19  }
20
21  .mybtn {
22      display: inline-block;
23  }
24
25  .file-upload {
26      background-color: #ffffff;
27      width: 600px;
28      margin: 0 auto;
29      padding: 20px;
30  }
31
32  .file-upload-btn {
```

03 _ Construction of the Project

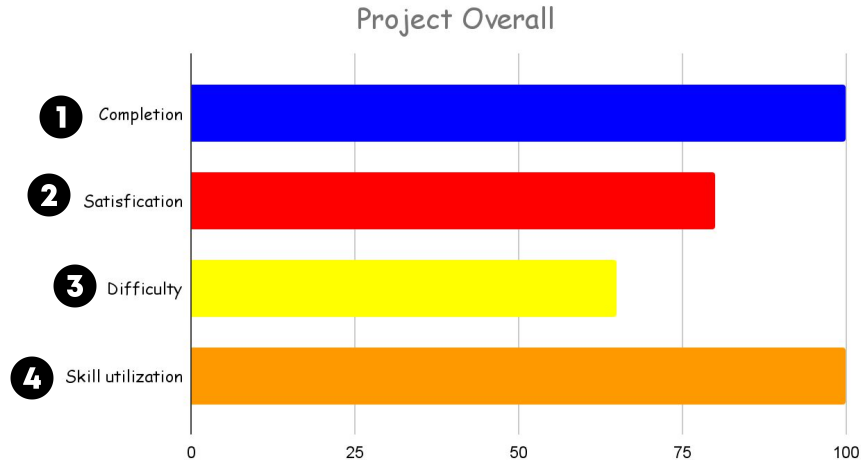Result in image

03 _ Construction of the Project

Result in video

04 _ Conclusion

Project Overall

1 Completion
2 Satisfication
3 Difficulty
4 Skill utilization

0   25   50   75   100

1 Took more time than expected, but **successfully added** all the functions.

2 **Failed to add** more design to the project but still satisfies with the result.

3 Expected to be easy task in the beginning but it was **challenging** at the end.

4 How to work with html and css are essential skills for programmers in the future. Learned a lot and **gain confidence**.

_ thank you

_Youtube link:

https://youtu.be/Moo9D1-Ko2k

_IDE link:

https://goor.me/U4zPm