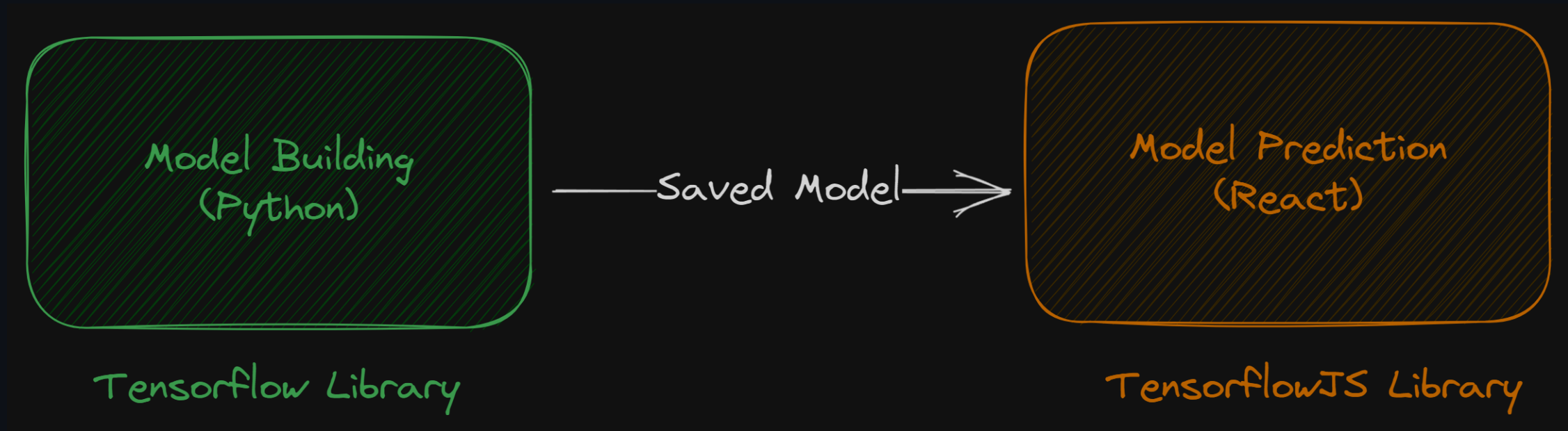
Information Technologies for Industrial Engineers

เทคโนโลยีสารสนเทศสำหรับวิศวกรอุตสาหการ

AI-powered Application (1)

House Price Prediction


Model Building
(Python)
Saved Model
Model Prediction
(React)
Tensorflow Library
TensorflowJS Library

Model building

Google Colab

- https://colab.research.google.com/drive/13v4HuX0ejV9tLzYQfoytZR_KizRm6-D8?usp=sharing
- You should obtain the saved model (zip).

Model prediction

Setting up

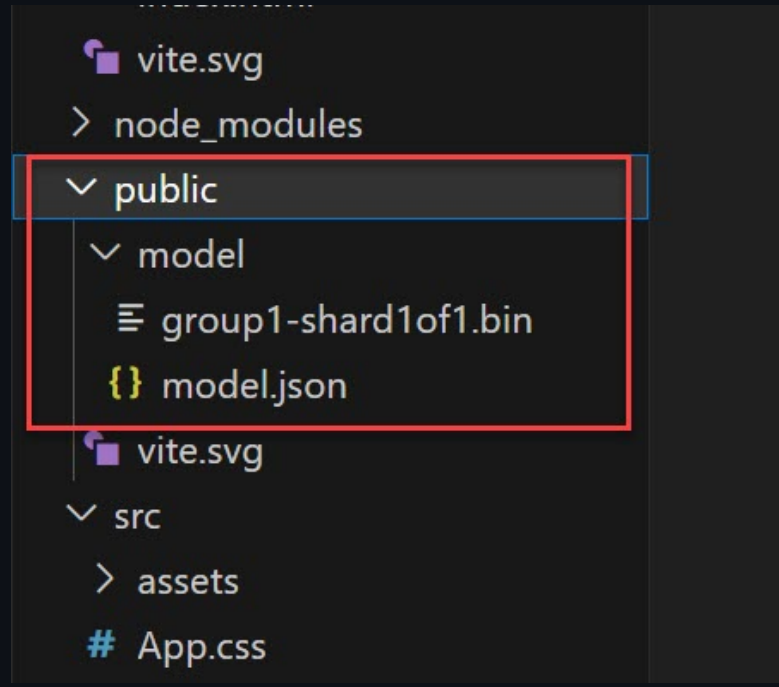
- `npm create vite@latest`
- ...

Library installation

- `npm install @tensorflow/tfjs @tensorflow/tfjs-converter`

Model location

- Extract the zip file.
- Place the contents inside `./public/model` folder



./src/model.ts

```
// import "@tensorflow/tfjs-backend-cpu";
import "@tensorflow/tfjs-backend-webgl";
import { loadGraphModel } from "@tensorflow/tfjs-converter";

export async function load_model() {
  const MODEL_URL = "model/model.json";
  const model = await loadGraphModel(MODEL_URL);
  return model;
}
```

`App.tsx`

https://gist.github.com/nnnpooh/0498cdc3578759d39ebf1461a7bce142#file-app-tsx

AI-powered Application (2)

General data

Model building

https://colab.research.google.com/drive/1PXNhTFrXPTGUGO2Cdxsb00bUWLE-2yts?usp=sharing

AI-powered Application (3)

Cloth size prediction

Model building

https://colab.research.google.com/drive/1UYdUzYZK-fTz6MYNvM-SCsUcxpcrYT5Z?usp=sharing

React

- https://gist.github.com/nnnpooh/cc7ddabad20c8bbce9a8732b52eae48c#file-app-tsx