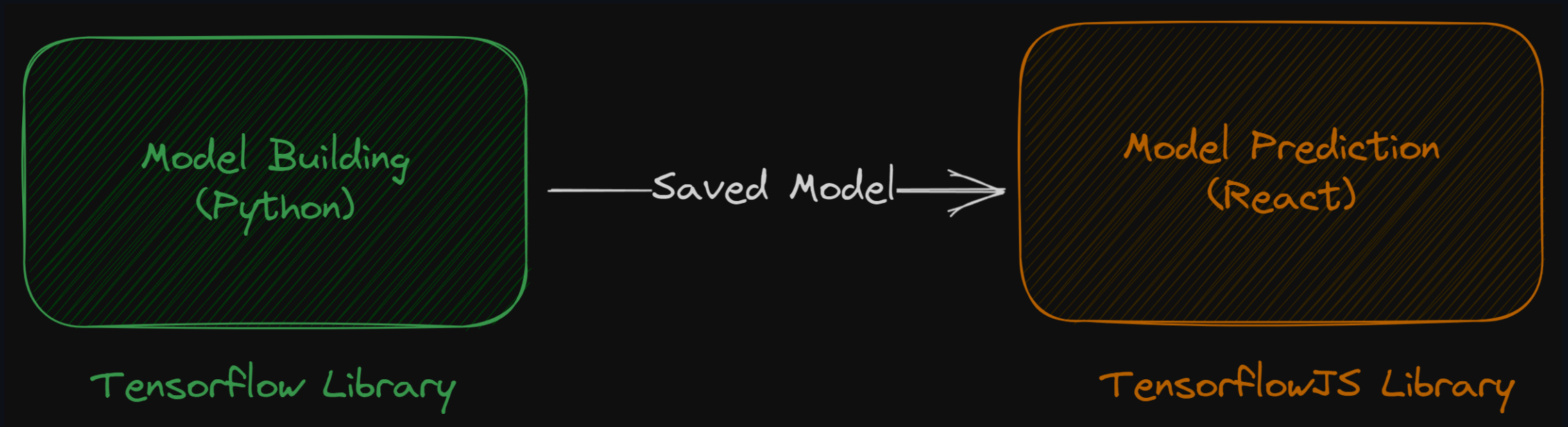


# Information Technologies for Industrial Engineers

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# **AI-powered Application (1)**

## **House Price Prediction**



# Model building

# Google Colab

- [https://colab.research.google.com/drive/13v4HuX0ejV9tLzYQfoytZR\\_KizRm6-D8?usp=sharing](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`
- ...

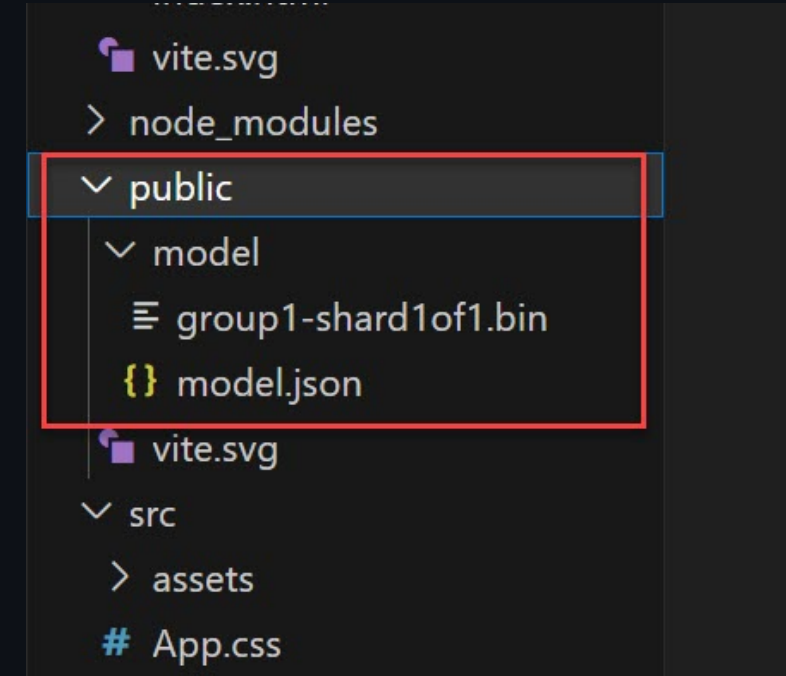
# Library installation

- `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/nnnpoooh/0498cdc3578759d39ebf1461a7bce142#file-app-tsx>

# **AI-powered Application (2)**

## **General data**

# Model building

- Notebook

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

- Data (lecture)

[https://docs.google.com/spreadsheets/d/1PoJtf4k6KTtD8tbaDGXz9pc3RDAAW8RDI/edit?usp=drive\\_link&ouid=104044184450097740475&rtpof=true&sd=true](https://docs.google.com/spreadsheets/d/1PoJtf4k6KTtD8tbaDGXz9pc3RDAAW8RDI/edit?usp=drive_link&ouid=104044184450097740475&rtpof=true&sd=true)

# **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/nnnpoooh/cc7ddabad20c8bbce9a8732b52eae48c#file-app-tsx>