

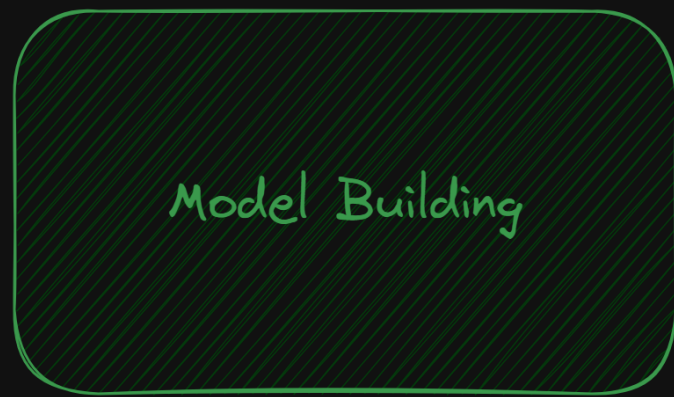
259106: Workshop Technology

AI-powered Web Application

Cloth Size Prediction

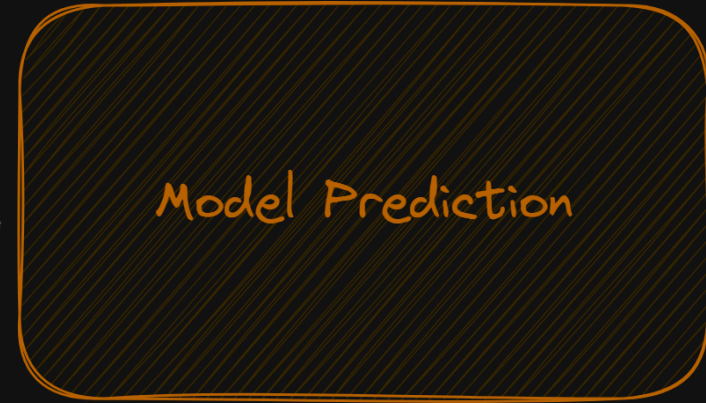
Technology

- Machine learning
 - Tensorflow library
 - Python language
- Web application
 - HTML
 - JavaScript



Tensorflow, Python

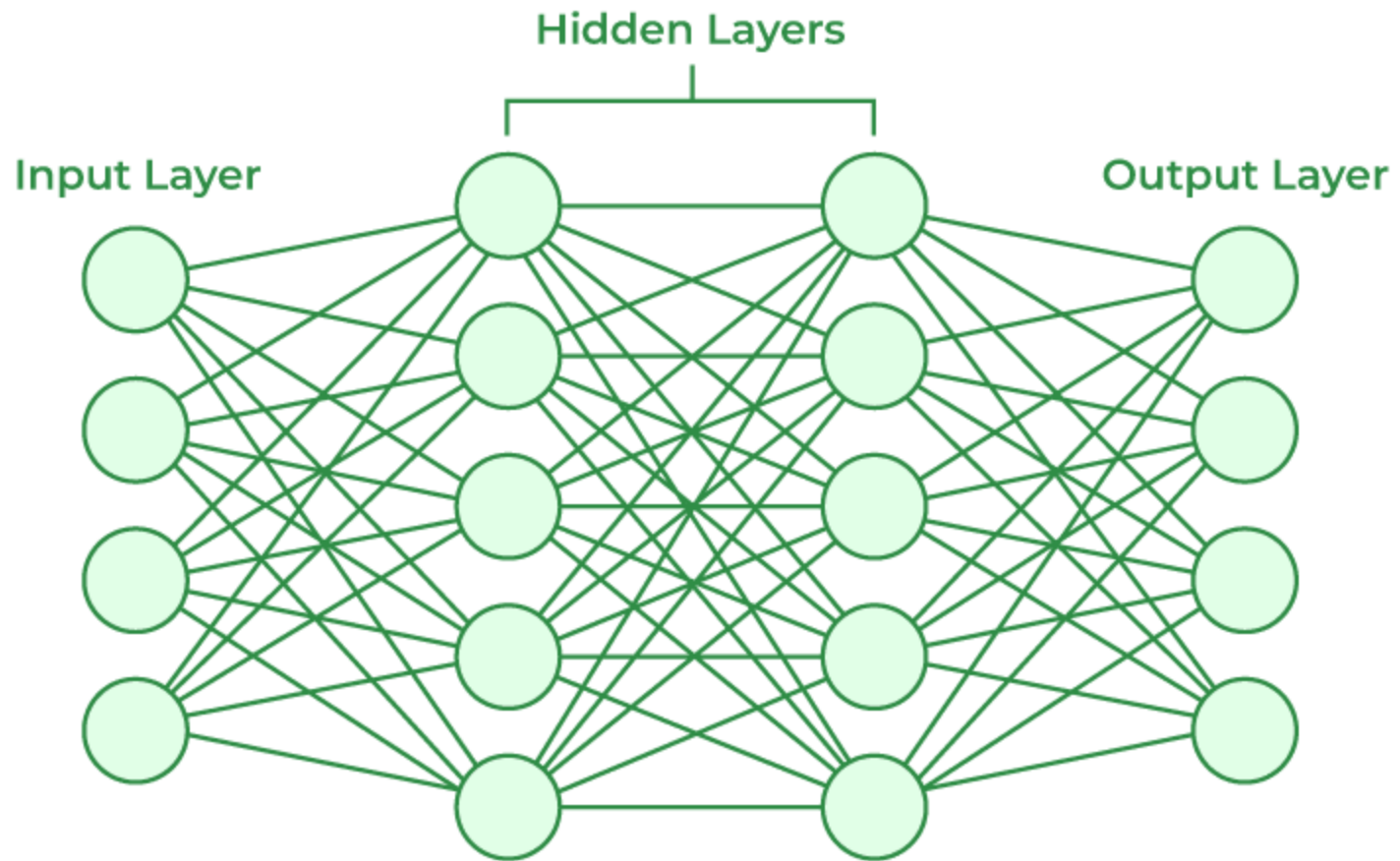
— Saved Model —>



HTML, JavaScript, TensorflowJS Library

Artificial Neural Networks (ANN)

- Algorithms based on brain function and are used to model complicated patterns and forecast issues.
- ANN can be best viewed as weighted directed graphs, that are commonly organized in layers.



Let's build ANN to predict cloth size.

Data

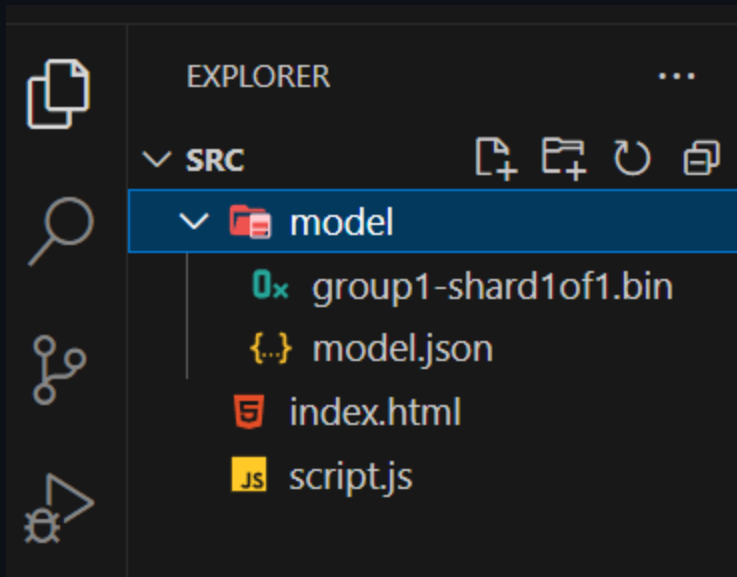
- https://raw.githubusercontent.com/it-for-ie-66/tf_dev/main/src/T04 - Cloth/data_sampled.csv
 - This data was adapted from [Source - Kaggle](#).

Machine learning code

- https://colab.research.google.com/drive/1QSs0VH1b3djvZfI_D5_PelAGcm1T80L3?usp=sharing
- You should obtain the saved model (zip).

Let's build a web application to make prediction.

File structure



- `index.html`
 - <https://gist.github.com/nnnpoooh/7ae7c88ac6ae7152c6469eca16282a2b#file-index-html>
- `script.js`
 - <https://gist.github.com/nnnpoooh/7ae7c88ac6ae7152c6469eca16282a2b#file-script-js>

Deployment

<https://www.netlify.com/>