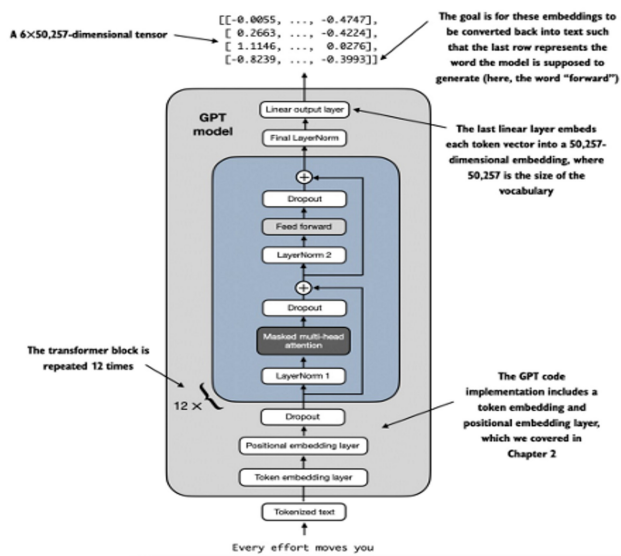


## GPT2 Model : Generating Text



```
tensor([[ 0.3613,  0.4222, -0.0711, ...,  0.3483,  0.4661, -0.2
        [-0.1792, -0.5660, -0.9485, ...,  0.0477,  0.5181, -0.3
        [ 0.7120,  0.0332,  0.1085, ...,  0.1018, -0.4327, -0.2
        [-1.0076,  0.3418, -0.1190, ...,  0.7195,  0.4023,  0.0
```

Lets Understand Steps to get tokens as output

Step 1 : find the last vector

```
[[[-0.2949, ..., -0.8141],
 [ 1.2199, ..., -0.3599],
 [ 1.0446, ...,  0.0020],
 [-0.4929, ..., -0.6093]]]

Logits: [-0.4929, ..., 2.4812, ..., -0.6093]]
```

Step2 : Apply Softmax

```
Probabilities: [ 0.0001, ..., 0.0200, ...,  0.0001]]
```

Step 3 : Identify the position/index of largest probability

Lets say ID of 0.02000 is 257

Step 4 : Decode Token ID to text : lets say text against token ID 257 is "a"

Step 5 : Append token to the input for next iteration

