

**TOPIC :** AI powered nutrition analyzer for fitness enthusiasts

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## Application Building

### Creating Our Flask Application And Loading Our Model By Using Load\_model Method

**Creating our flask application and loading our model by using the load\_model method**

```
15
16 model = load_model('nutrition.h5')
17 app = Flask(__name__)
18
19 def getOptAndType(name):
20     type = name[name.find('.') + 1:]
21     if type == "css" or type == "html":
22         opt = 'r'
23     else:
24         opt = 'rb'
25
26     return (opt, type)
27
28 staticAssets = {}
29 assetsDir = 'F:\nutrition'
30 for file in os.listdir(assetsDir):
31     opt, type = getOptAndType(file)
32     staticAssets[file] = open(assetsDir + '/' + file, opt).read()
33
34 def createHttpResponse():
35     res = make_response()
36     res.status = "Resource not found"
37     res.status_code = 404
38     return res
39
40 @app.route('/')
41 def index():
42     if staticload:
43         indexPage = staticAssets['index.html']
44     else:
45         indexPage = open(assetsDir + '/' + 'index.html').read()
46     return indexPage
47
48 Base route (/about)
```

```
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building a python model.py - Visual Studio Code
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building a python model.py X
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7
8 os.environ['TF_CPP_MIN_LOG_LEVEL'] = '3'
9 staticload = False #useful during development
10 formatError = "Incorrect format"
11
12 import tensorflow as tf
13 from tensorflow.keras.models import load_model
14 from tensorflow.keras.preprocessing import image
15
16 model = load_model('nutrition.h5')
17 app = Flask(__name__)
18
19 def getOptAndType(name):
20     type = name[name.find('.') + 1:]
21     if type == "css" or type == "html":
22         opt = 'r'
23     else:
24         opt = 'rb'
25     return (opt, type)
26
27
28 staticAssets = {}
29 assetsDir = 'F:\nutrition'
30 for file in os.listdir(assetsDir):
31     opt, type = getOptAndType(file)
32     staticAssets[file] = open(assetsDir + '/' + file, opt).read()
33
34 def createErrorResponse():
35     res = make_response()
36     res.status = "Resource not found"
37     res.status_code = 404
38     return res
39
40 @app.route('/')
41 def index():
42     if staticload:
43         indexPage = staticAssets['index.html']
44     else:
45         indexPage = open(assetsDir + '/' + 'index.html').read()
46     return indexPage
47
48 @app.route('/about')
49 def about():
50     return serverFile("about.html")
51
52 @app.route('/info')
53 def info():
54     pass
```