# **How to build software with ML models**

# It is good to have a coding knowledge or working experience in developing the software before jumping into data science field. The consent of algorithm that can teach themselves to predict the output is amazing in itself.

# However, if you do decide to start studying Machine learning and took help of video and course than there is chance of that you will going to spend some weeks learning linear algebra and multivariable calculus before giving up.

# The reason for this is that most introductory material for machine learning isn’t geared towards developers, it’s geared to ML researchers—and this is an issue for developers who just want to build products with machine learning.

# Building a Web Application to Deploy Machine Learning Models

# I am assuming that you have been learning Deep Learning for a while now, you may have built some models using your Jupyter notebook or google Colab by doing a range of things, learning from image recognition to language translation. Now you may be thinking to tell your friends to try it out your models but sending them a Jupyter notebook or Colab isn’t really what you had in mind. Now the question may arise How do you build a Web Application to deploy your Machine Learning models?

# I will let you know of building a web app around our Machine Learning model for others to try it out. We will go through some Web programming techniques such as HTML and Flask, as well as deploying it on the Web on a Ubuntu server on DigitalOcean.

# You will need some html knowledge to build the frontend

# Out first process will be to take the dataImage for post

# Source: <https://towardsdatascience.com/building-a-web-application-to-deploy-machine-learning-models-e224269c1331>

# After getting uploaded image from user our task is to provide the output of the data , so in this case you can see sample output

# Image for post

# Source: <https://towardsdatascience.com/building-a-web-application-to-deploy-machine-learning-models-e224269c1331>

# For making this project you should be familiar with image recognition model

# After making your model you may need to deploy so that everyone can have access to this

# You need to setup your web server on digital ocean

# Link: <https://m.do.co/c/e2093d3a5967>

# Once you register to this you will 100$ that you can use and you can start deploying your project

# Dashboard will look like this

# Image for post

# Click on plus icon to create a Droplet with is Linux based OS. after clicking on create droplet

# Image for post

# After this use can choose pricing option and datacentre region as per your requirement

# After all this you will get below page so you can ignore content for now and click on create

# Image for post

# The project creation takes some time and after that you will see something like this

# Image for post

# Now on mail you will get Ip address and other required information

# Click on “Access console”. This will open up a window which will allow you to communicate to your Web server.

# Image for post

# Now you can work on console and add the html file that you have made and for backend you need to install flask

# To run html file, enter below command:

# nano index.html

# after front end you may need to process backend details where you need below detail

# Load our Machine Learning model;

# Define what happens when he uploads the photo in the main homepage; and

# Apply our Machine Learning model to the image and show the user the results in a separate “prediction” page.

# For more detail step by step process you can visit: <https://towardsdatascience.com/building-a-web-application-to-deploy-machine-learning-models-e224269c1331>

# 