<https://towardsdatascience.com/simple-way-to-deploy-machine-learning-models-to-cloud-fd58b771fdcf>

# Simple way to deploy machine learning models to cloud

## Deploy your first ML model to production with a simple tech stack

[Tanuj Jain](https://tanuj-jain.medium.com/?source=post_page-----fd58b771fdcf--------------------------------)

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A group of people on a roller coaster

Description automatically generated with low confidence

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The Machine learning world currently sees Data Scientists (DS) performing one or both of the following 2 prominent roles:

1. Where a DS receives a data dump, applies some Machine learning algo on the data and reports back the results in the form of some presentation or report.
2. Where the DS creates a usable piece of software for the stakeholders to consume the machine learning models.

In this blog post, I’m attempting to display an example approach to the second aspect of a DS’s job i.e., creating some software that can be used by the stakeholders. Specifically, we would create a web-service that can be queried to obtain the predictions from a machine learning model. The post is mostly intended for machine learning practitioners who would like to go beyond only developing models.

**Tech-stack**: Python, [Flask](http://flask.pocoo.org/), [Docker](https://www.docker.com/), [AWS ec2](https://aws.amazon.com/ec2/)

The workflow can be broken down into following basic steps:

1. Training a machine learning model on a local system.
2. Wrapping the inference logic into a flask application.
3. Using docker to containerize the flask application.
4. Hosting the docker container on an AWS ec2 instance and consuming the web-service.