

Machine Learning: From model to production using  
the cloud, Containers and DevOps





# Machine Learning: From Model to Production

Using the cloud, Containers and DevOps

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# Terry McCann

Head of Data Science for Adatis.

Microsoft Most Valuable Professional (MVP)

11+ Years working with data and engineering

MSc in Data Science from Dundee

I live in Devon with my Wife and little boy Dusty

I love board games.



Over to ***You.***

What is your name?

What do you do?

Who do you work for?

What do you want out of today?

M0 - Title Intro Agenda

Lab 0 - Check everyone is set up

M1 - Intro to Machine Learning with Python

Demo - Clustering

Demo - Regression

Demo - Classification

M2 - Creating our first Machine learning model.

Demo - Creating a model - Diabetes Regression

Lab 1 - Creating a Python Model

M3 - Python Serialisation.

Lab 2 - The basics of serialisation in Python

M4 - Creating REST APIs

Lab 3 - Adding Flask to our model to expose an API

M5 - An introduction to Docker

Lab 4 - Hello World! in Docker

Lab 5 - Deploying a web app in to Docker

Lab 6 - Deploying our model in to Docker

Lab 7 – Creating the container registry

M6 - An Introduction to Kubernetes

Lab 8 - Deploying our model in Kubernetes

M7 - DevOps for Machine Learning

Demo - Setting up a Build pipeline for deploying changes

M8 - Extending the design - The Rendezvous pattern

Where to find the ***slides*** and  
***demos***

[https://github.com/SQLShark/](https://github.com/SQLShark/MachineLearningFromModelToProduction)  
[MachineLearningFromModel](https://github.com/SQLShark/MachineLearningFromModelToProduction)  
[ToProduction](https://github.com/SQLShark/MachineLearningFromModelToProduction)



# *Questions?*

Shout them out!!

