1-DAY MLOPS DISCOVERY WORKSHOP

MLOps: DevOps for Machine Learning. Get your team ready to apply DevOps principles to Machine Learning and AI to build smarter applications.

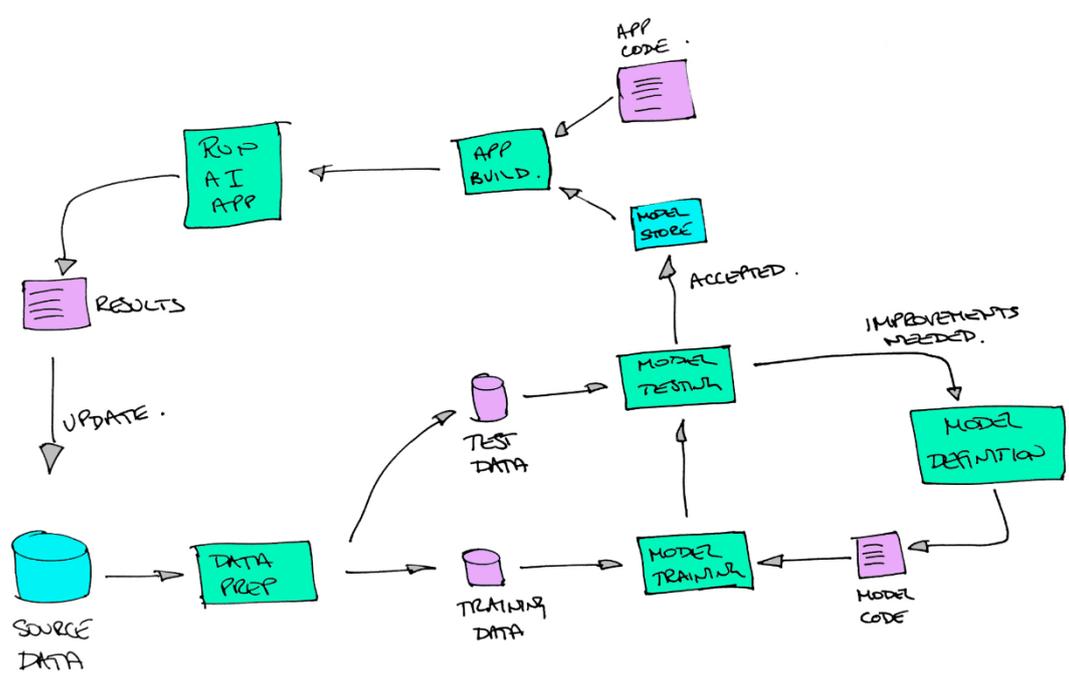## DEVOPS – AUTOMATED AND REPEATABLE DELIVERY

The principles and benefits of DevOps are well established as applied to software engineering. We use humans for what they are best at: understanding problems, creativity, finding solutions and working with others. This is what software engineers do when they are at their best.

What we want to do is to remove the toil from the process. Compiling code, testing it, building environments, deploying – this is the same every time. Humans aren't good at this sort of thing. We're not repeatable enough. We get bored. We get creative. Better to get the computers to do this kind of thing – they love doing the same thing over and over again!

MACHINE LEARNING – SOLVING PROBLEMS WHERE TRADITIONAL PROGRAMMING FAILS

The concepts of neural networks and machine learning have been around for decades. We've long known that the human brain can outperform computers when they're tackling highly complex problems. Researchers have been chipping away at human pre-eminence in areas like chess and voice recognition. This is where logical structures such as if…then…else simply aren't up to the task.

So, what's changed? Increases in both the power and the accessibility of this technology. Cloud compute has given us the scale to quickly train sophisticated models, giving us immense power to decode complex data such as images, video and sound. Tools and frameworks make it easier than ever to bake these models into our applications, making our applications richer and smarter than ever before.

WHAT THE WORKSHOP COVERS

When you sign up for this workshop, we will work with your team to determine how best to implement MLOps in your business.

AGENDA

PRE-MEETING

We'll send you a questionnaire for you to pull together relevant information to maximise the effectiveness of the day.

ON THE DAY

- Introductions and welcome + set objectives for the day.
- Presentation: Setting the scene - an overview of MLOps. We take you through the Machine Learning lifecycle and show how MLOps supports this - how we use DevOps techniques so support the creation, training and integration of Machine Learning models.
- Discovery Session: We take a look at the practices in your business such as your data engineering, your adoption of DevOps, how you build and deliver applications, and how you're using Machine Learning and AI.
- Scenario Deep-Dive: We agree a scenario in your business that we want to look at in more detail. We investigate your data, where it is, what processes we need to implement to extract and curate your training data. We then look at how you create and train models, and how you manage your built models. Finally, we look at how you will build these models into your applications, where MLOps meets your application DevOps.
- Action plan and way forward.
- Wrap-up.

DELIVERABLES

After the event we'll write up the findings and send you a presentation with the key learnings and the agreed way forward.

LOCATION

We usually run this workshop from our offices, but we can also arrange to hold it on your premises.

CONTACT 345

To discuss how you can use DevOps techniques to build AI into your apps please contact 345 here:

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