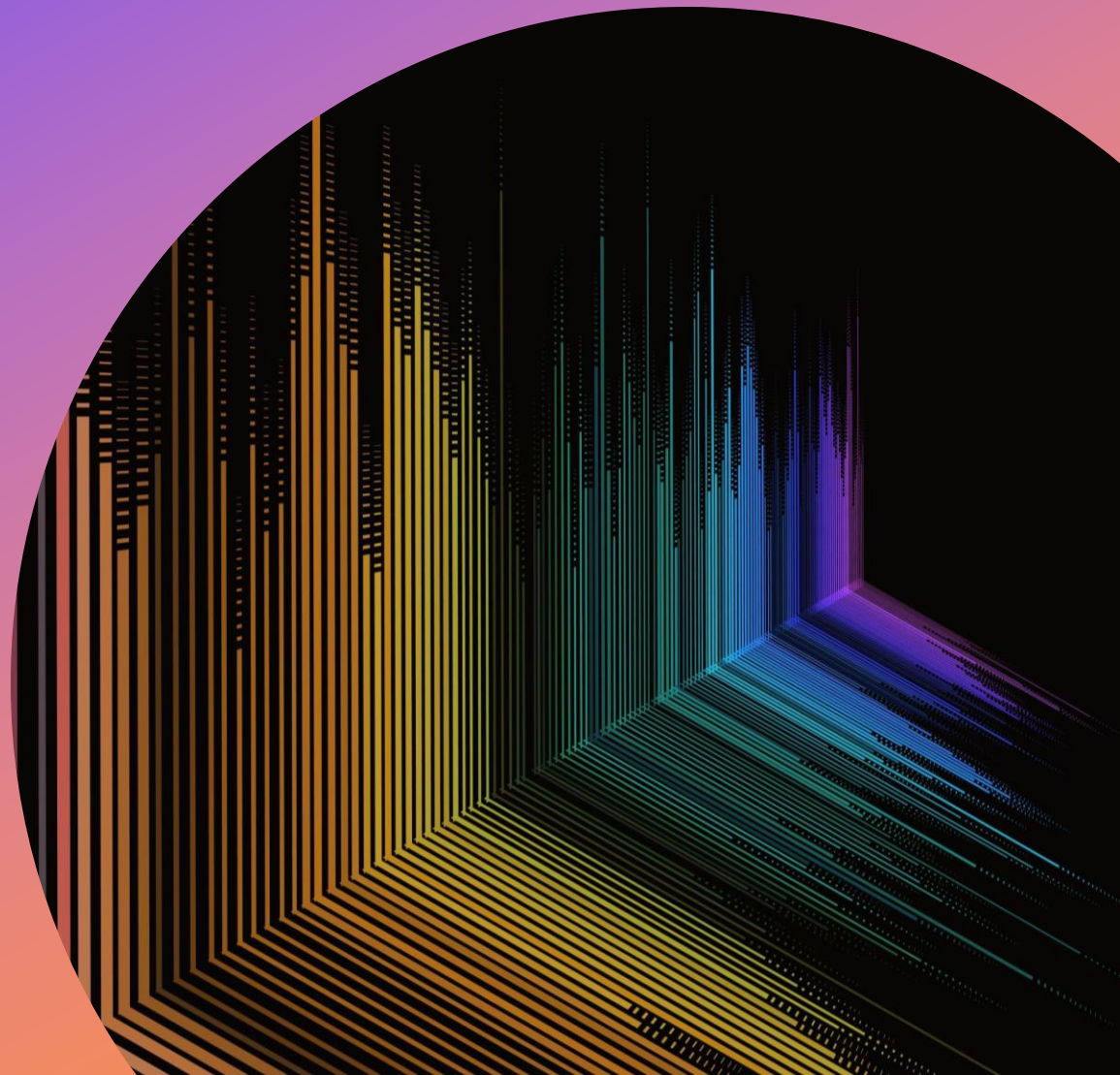
HOW TO DEPLOY MACHINE LEARNING USING MAAS

Lecturer: Mr. CHAN Sophal

Student: HENG Seyha



What is Model as a Service?

Model as a Service is a cloud-based approach to deploying a machine learning model, where the model is hosted on the server and made available to user via an API.

Application Programming Interface, is a set of rules that allow two pieces of software to talk to each other. APIs are used to share data and functionality between different applications.

The general steps:

- Train the model. The first step is to train the model on a dataset of data. This can be done using any machine learning framework, such as scikit-learn or TensorFlow.
- Export the model. Once the model is trained, it needs to be exported in a format that can be deployed as a web service. This format is typically a binary file or a serialized object.
- Create a web service. The next step is to create a web service that exposes the model. This can be done using a variety of frameworks, such as Flask or Django.
- Deploy the web service. The final step is to deploy the web service to a cloud platform, such as AWS, Azure, or Google Cloud Platform.

Additional steps:

- Configure the web service. You may need to configure the web service to accept requests and return predictions.
- Test the web service. Once the web service is deployed, you should test it to make sure that it is working correctly.
- Monitor the web service. You should monitor the web service to make sure that it is performing as expected.

Benefits of the MaaS

- Scalability: MaaS is scalable, so you can easily increase the capacity of your model as your traffic increases.
- Reliability: MaaS is reliable, so you can be confident that your model will be available when you need it.
- Ease of use: MaaS is easy to use, so you can quickly and easily deploy your model.

- THANK YOU!!!