Orange
Deploy AI models using Acumos

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Tomorrow, AI models will be used to orchestrate networks

- A chance to provide more QoS and flexibility

But also

- A new challenge for network operational teams...
When AI model is deployed and used, the job is not finished

AI models will have to be updated or modified (take into account new features, increase their performances, etc.)
Update or re-create may be a long process

- Collect the data
- Manage the data
- Exploratory analysis
- Re-create the model
- Deploy the model
Acumos functions

Model onboarding: publish it in a catalog (or marketplace)
- Model management through a portal
- Possible automatic microservice generation after model onboarding
- Nexus repository for model Docker images

Design Studio: model chaining
- Chain models when the output of the one corresponds to the input of the other
- Obtain a new model microservice from the chained models

Model deployment
- One-click deployment on Azure for example
- Docker image deployment from Nexus
Recent proposal for next releases: CI/CD for models

- Model is code: get an official repository for model code
- Several Data scientists can work on a same model
- Re-deployment is automatic on code master repo change
Conclusion

- Some works are in progress in Acumos to speed-up deployment phase
- Based on Jenkins jobs AI models deployment will be automated from Acumos towards ONAP or other environments
- Benefit: AI modelers don’t have to take care of the deployment phase
- Final target: automated the deployment right from the model on-boarding in Acumos
- Stay tuned to Acumos

https://wiki.acumos.org/
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Thank you