Execute python code in Spring

1. embed Python code directly in Java (JEP, JPY, JYTHON)

2. transpile(특정 언어 소스 코드 → 다른 언어로 변환) sckit-learn models to Java code (sklearn-porter, m2cgen)

3. redevelop sckit-learn models with H2O or Spark's MLib

Considered Options

- using Spark in embedded mode (using just JAR dependencies)
- ~~setting up a Spark cluster~~

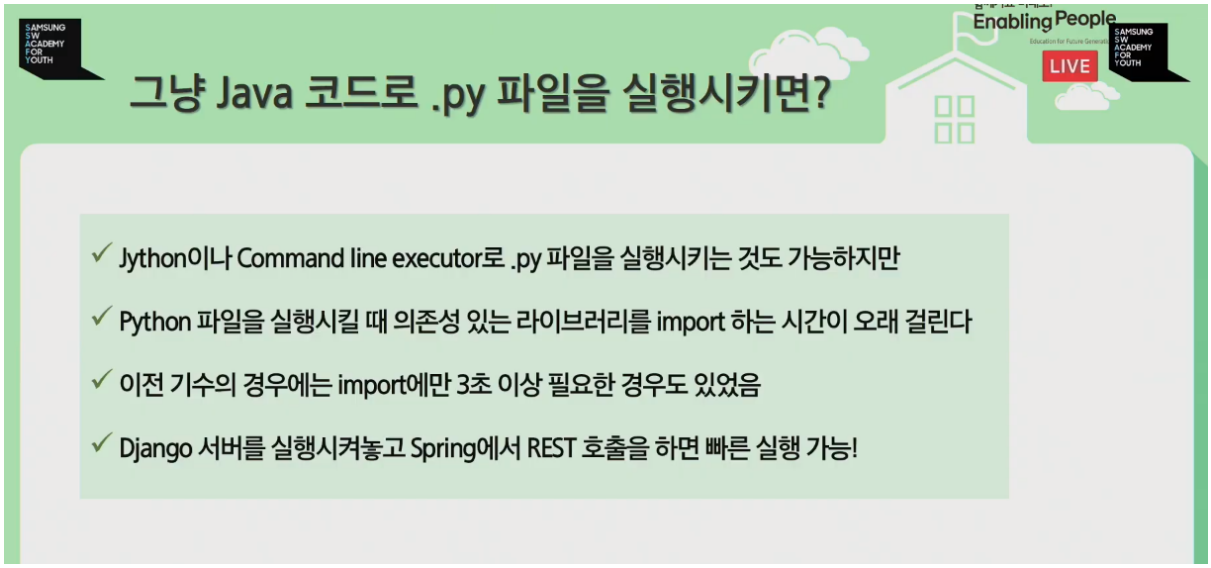
Approach	Pros	Cons
embed	models stay as they are	additional "glue" code and communication overhead, two code bases to maintain
transpile	speed (all code is in Java)	quality of converted models may vary, limited number of supported algorithms
redevelop	speed, stability, scaling, code for training the models can stay in Python	re-implementation of feature extraction code, limited number of supported algorithms, results may vary due to different implementations of algorithms

Moving from Python to Java to deploy your machine learning model to production

We have developed a prototype of a system that recommends transformations in Informatica Mapping Designer. Now, we wanted to move to production. The prototype was completely developed in Python using scikit-learn library, a popular library for developing

https://towardsdatascience.com/moving-from-python-to-java-to-deploy-your-machine-learning-model-to-production-560ca7d9c870

4. use Django



1. Customer → Spring REST → Django REST
2. Django REST Result → Spring → Customer