

Machine Learning made easy with PyCaret

Moez Ali

October 5, 2022

This presentation and demo is available on:

<https://www.github.com/pycaret/pycaret-gotocph>



About me

- **Background:** Finance + Economics + Data Science
- **Industry:** Healthcare + Education + Consulting + Fintech + Retail
- **Current Work:** AI Product Strategy Director @ Antuit.AI
- **Academic / Research:** Queens University, Cornell University, University of Regina
- **Open-source:** PyCaret



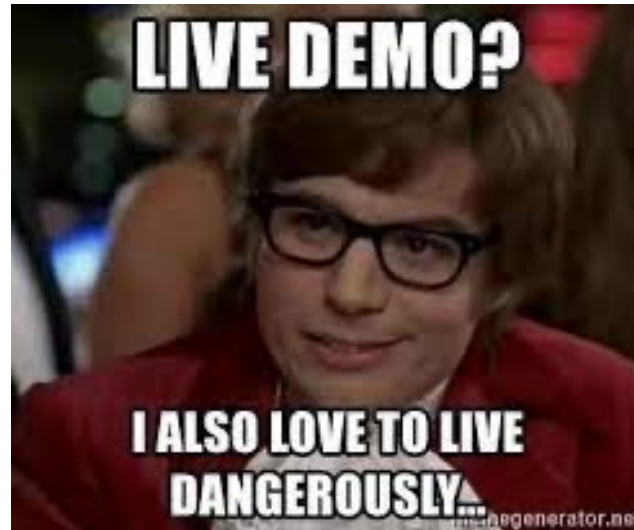
Moez Ali



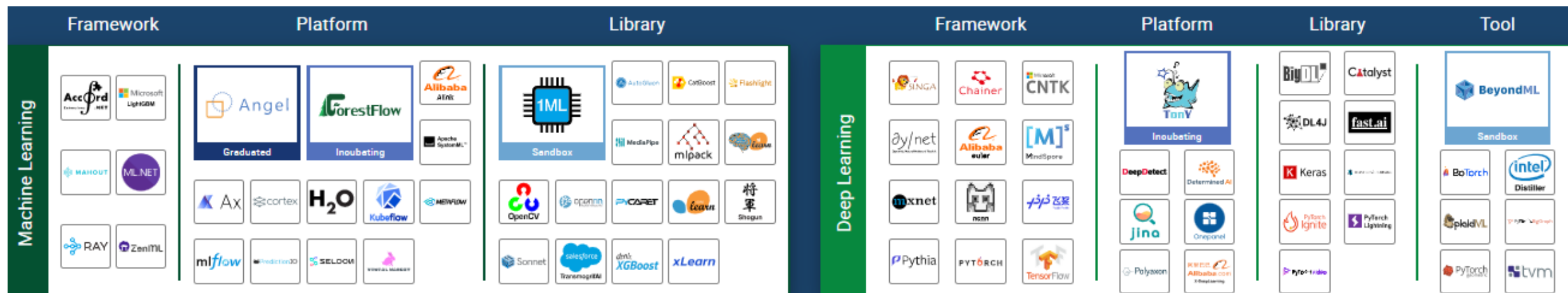
@moezali

By the end of this session:

- What is PyCaret
- Live demo: Use-case implementation in Python



AI and Data Landscape - 2022



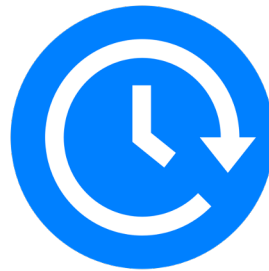
Source: [Linux Foundation](#)

PyCaret

PyCaret is an open source, **low-code** machine learning library for building and deploying machine learning pipelines in Python. It is commonly used for rapid prototyping and primarily targeted towards **Citizen Data Scientists**.



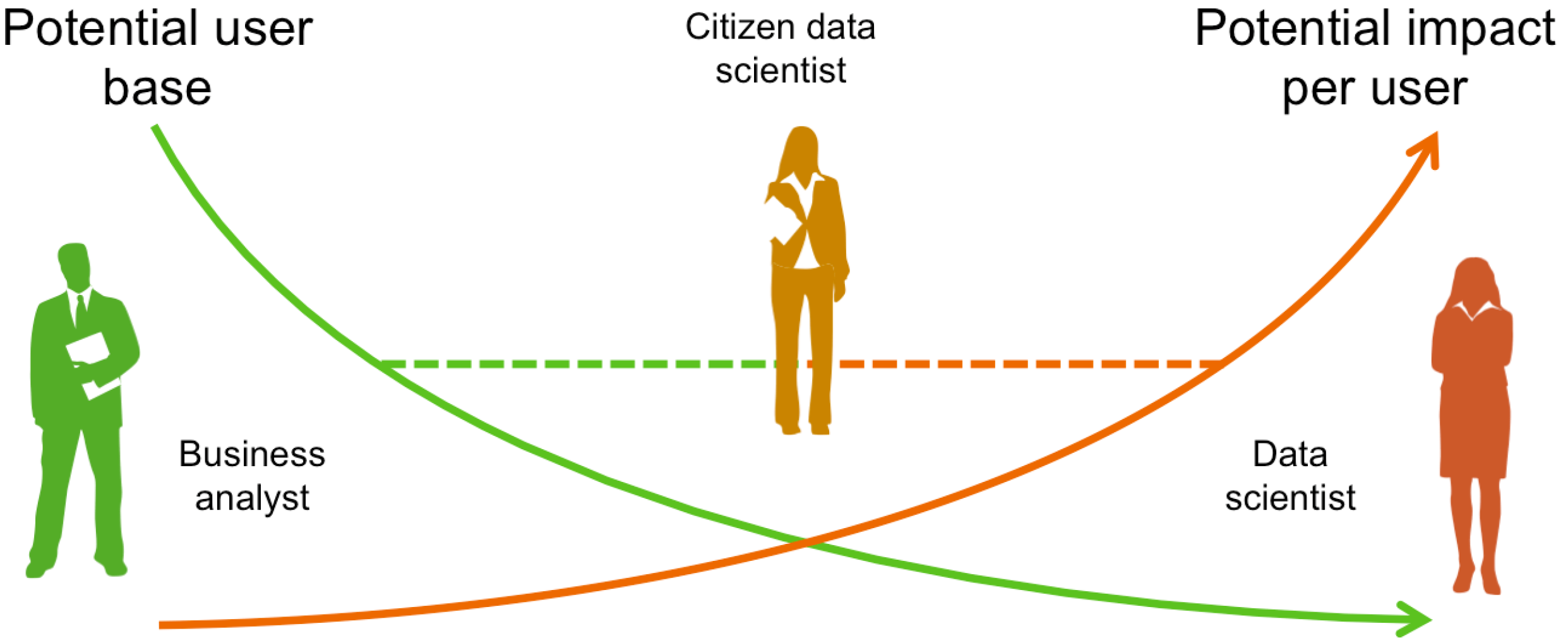
EASY TO USE



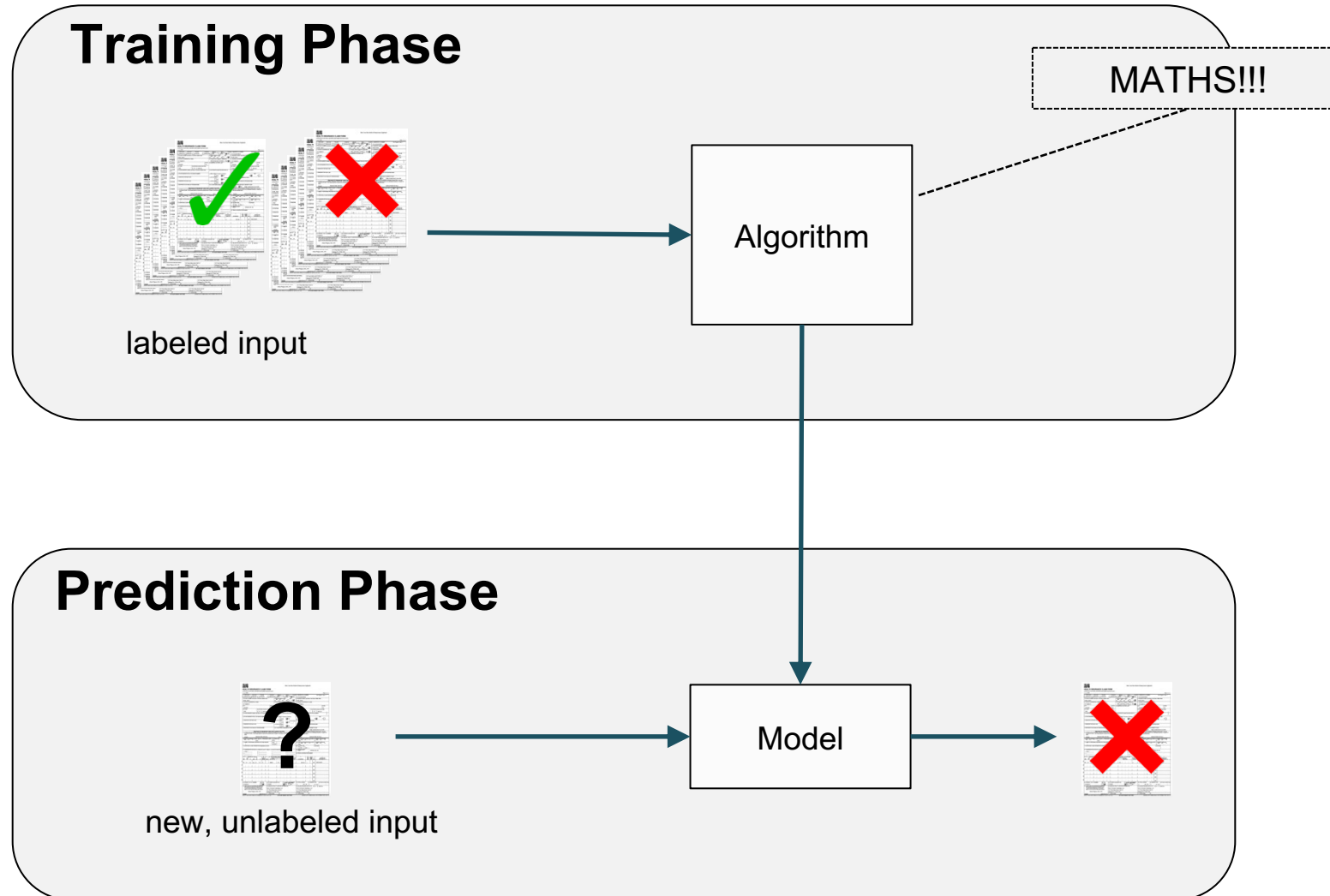
PRODUCTIVITY TOOL



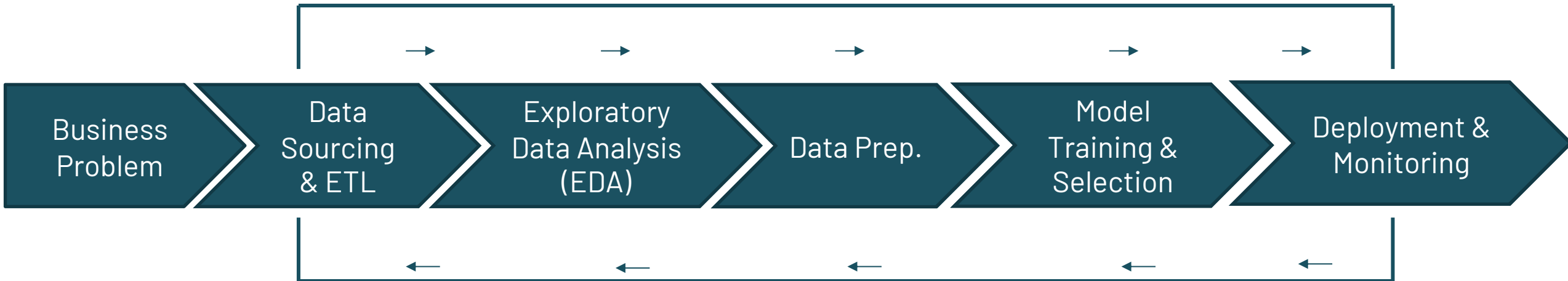
BUSINESS READY



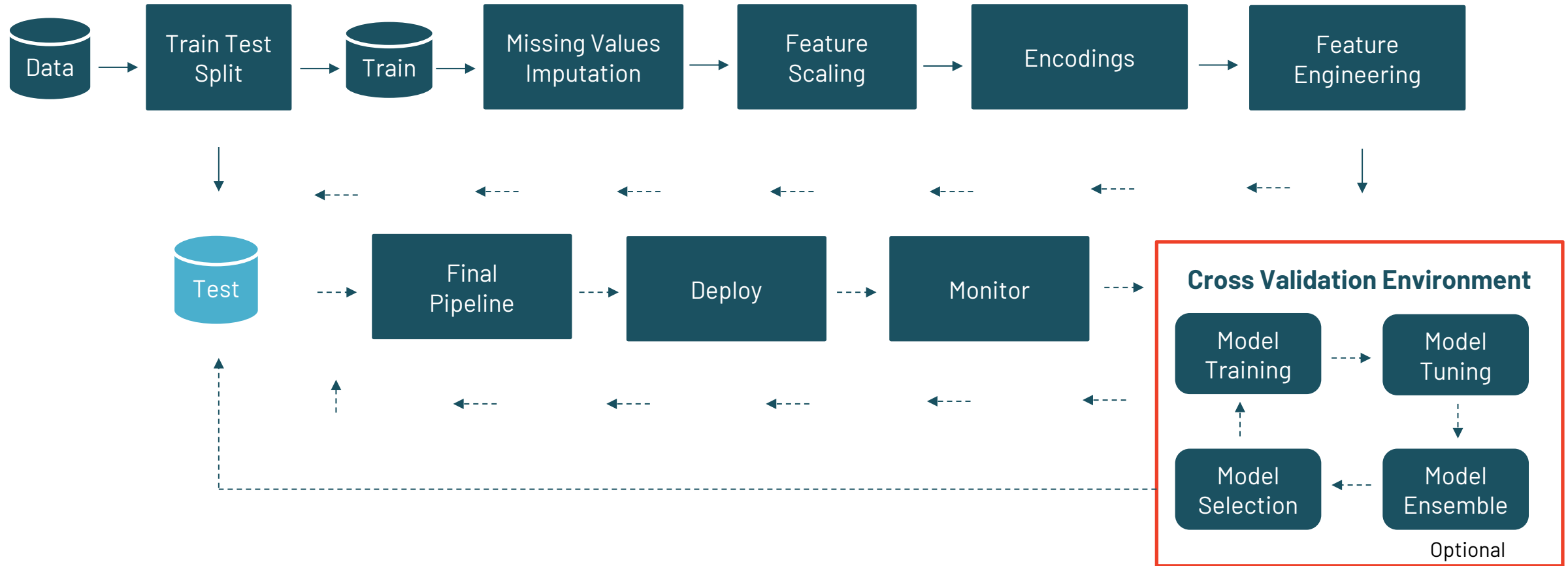
Phases of Machine Learning



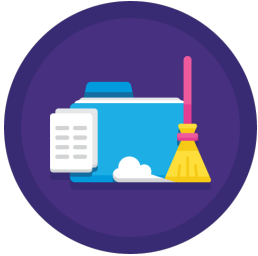
Machine Learning Life Cycle



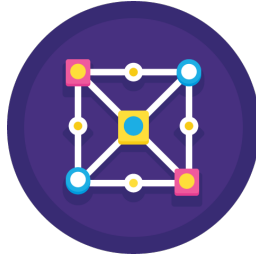
Data Prep, Model Training and Selection



Features:



Data
Preparation



Model
Training



Hyperparameter
Tuning



Analysis &
Interpretability

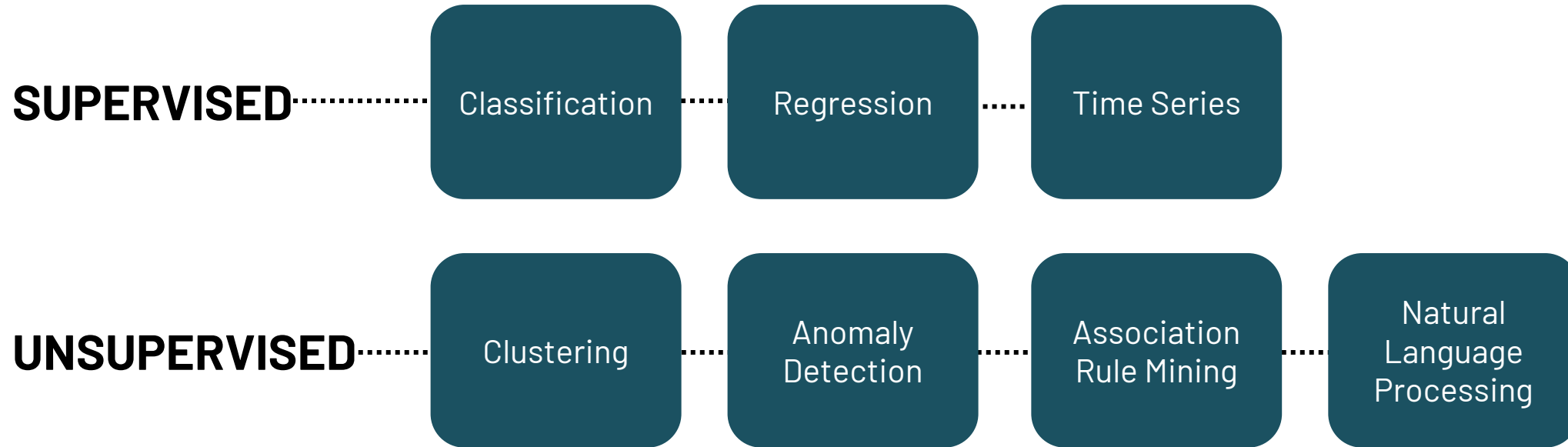


Model
Selection



Experiment
Logging

Use-cases supported in PyCaret



PyCaret by numbers

6.5M+

Downloads

6,400+

Git Stars

90

Contributors

4,000+

Commits

Integrations



RAPIDS



mlflow™

XGBoost



Yellowbrick



spaCy

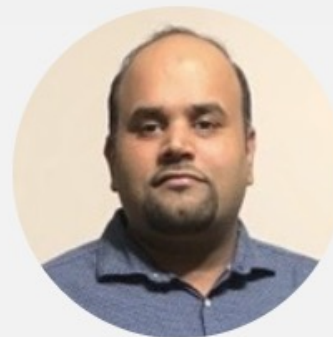
Demo

📅 Thursday Oct 6 ⌚ 09:00 – 17:00
📍 Nordea (Grønjordsvej 10, 2300 CPH)

PyCaret Masterclass: Machine Learning for Business Analysts

REGISTER

This 8-hour full-day Masterclass on PyCaret: Machine Learning for Business Analysts specifically targets data science enthusiasts and domain experts. In this fully hands-on Masterclass, you will learn several important concepts and techniques in machine learning with the help of real-life business problems. You will have an opportunity to learn directly from Moez Ali – the creator of PyCaret himself. PyCaret is one of the most used and popular open-source, low-code, machine learning library in Python with over 5M downloads and a welcoming community. Moez is the founding developer of PyCaret and a senior data scientist who has led multimillion-dollar AI projects in Healthcare, Fintech, Retail, and



Moez Ali

Creator of PyCaret



Course Syllabus

- Machine Learning Lifecycle (CRISP-DM)
- Time Series Forecasting
- Supervised Machine Learning
- Automated Hyperparameter Tuning
- Clustering Analysis
- Experiment Logging and MLOps
- Classification Models
- Model Ensembling
- Regression Models
- Exploratory Data Analysis

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