Model Building Life Cycle

Background and Objective

Data Exploration Preparing data for analysis

Building the model

Validating the model

Deployment

Business Objective

Collect data

Validate data

Select the right model

Intime validation

Deploy model

Set Goals

Explore data

Outlier treatment Variable selection

Out of time validation

Maintenance of model

Project Plan

Basic Summary

Missing value treatment Model building and finetuning

Model iterations

Model finetuning

Model monitoring

Budget & Resources

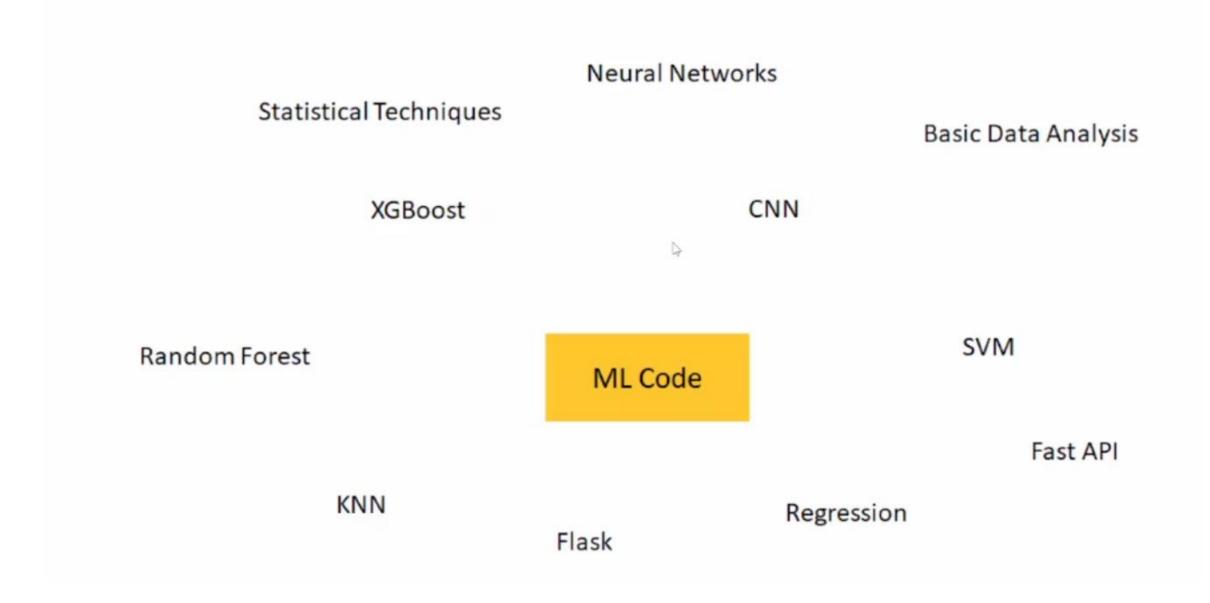
Identify outliers and missing values

Clean the data

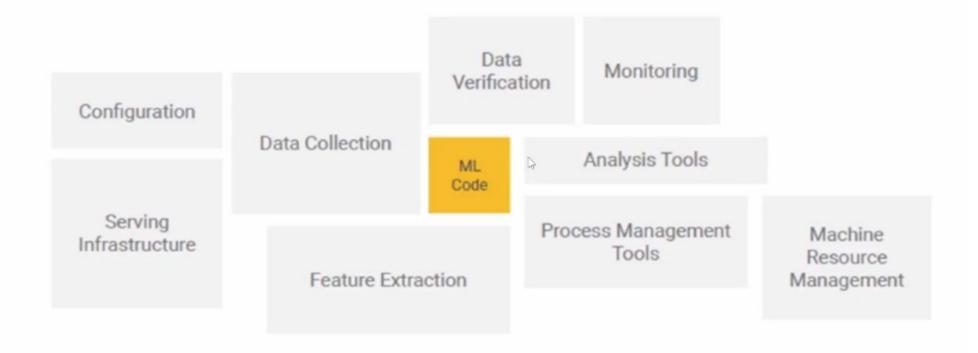
Prepare data for Analysis

a for

Machine learning - what do we see

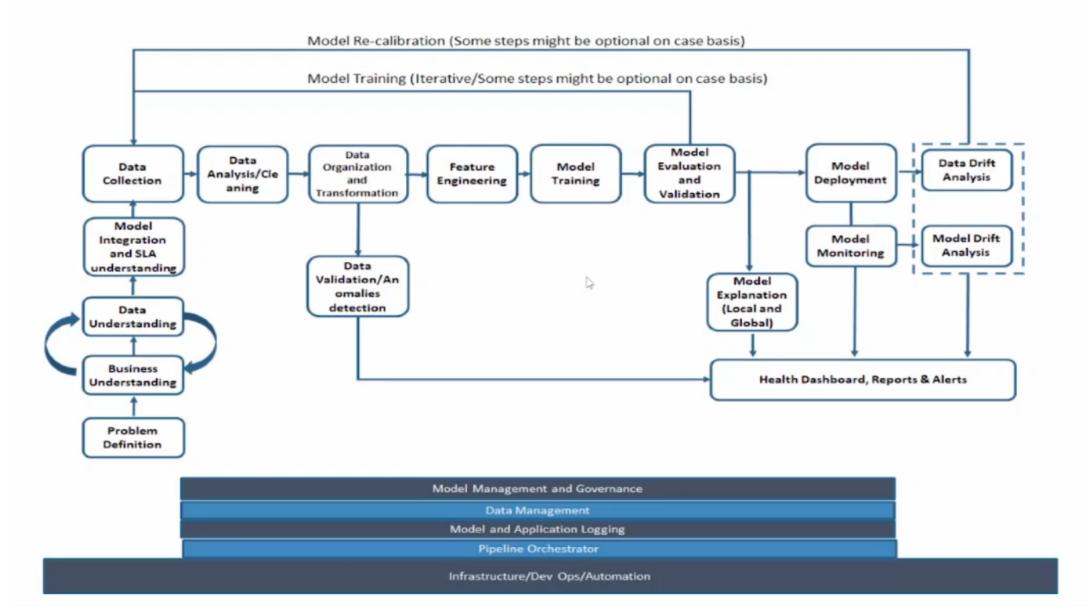


Machine learning - Real world ml systems



Source - https://papers.nips.cc/paper/2015/file/86df7dcfd896fcaf2674f757a2463eba-Paper.pdf

Real world ML process



Challenges with people and process in ML

→ Skill mismatch between Data Engineers, Data Scientist and Software/DevOps Engineers

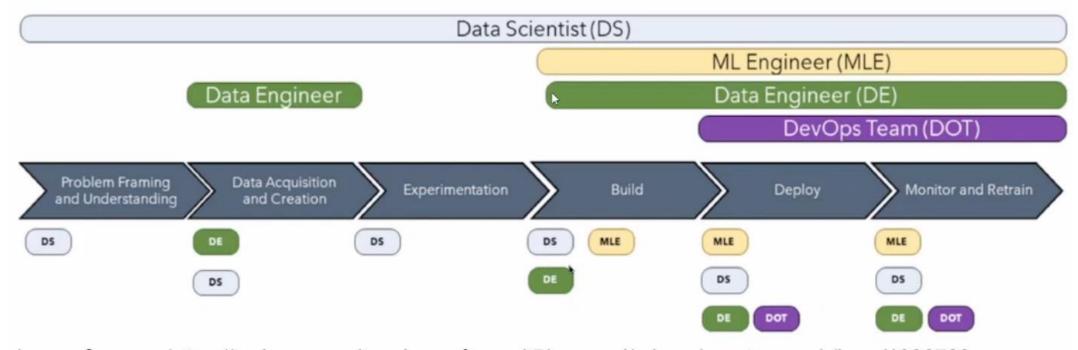


Image Source - https://techcommunity.microsoft.com/t5/azure-ai/mlops-is-not-enough/ba-p/1386789