

INTRODUCTION



Inspiration of this course



AI overview



INSPIRATION OF THIS COURSE

2 MAIN TYPES OF THE MARKET



History repeats itself



History doesn't repeat itself

CHALLENGES

Prevent Overfitting

Dynamic behavior

Unseen scenario

FOR MORE EXPLAINATION

SOLUTION







Dimensionality reduction



Ensemble learning



Concept drift



Synthesis data generating

SOLUTION



Overfit prevention



Make results more clear & get new intuition



Overfit prevention & Dynamic behavior



Dynamic behavior



Unseen scenario



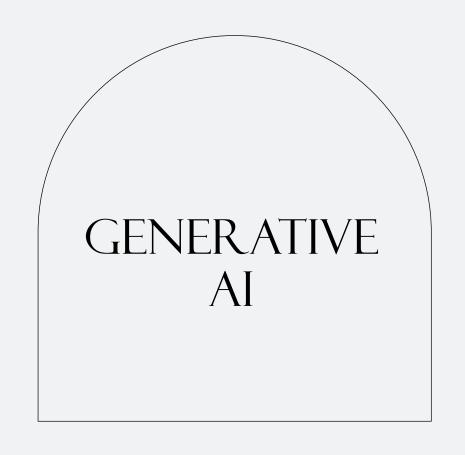
AI OVERVIEW



Generative AI



Discriminative AI



Variational autoencoder (VAE) Generative adversarial network (GAN) Autoregressive model Normalizing flow model Energy-based model Diffusion model





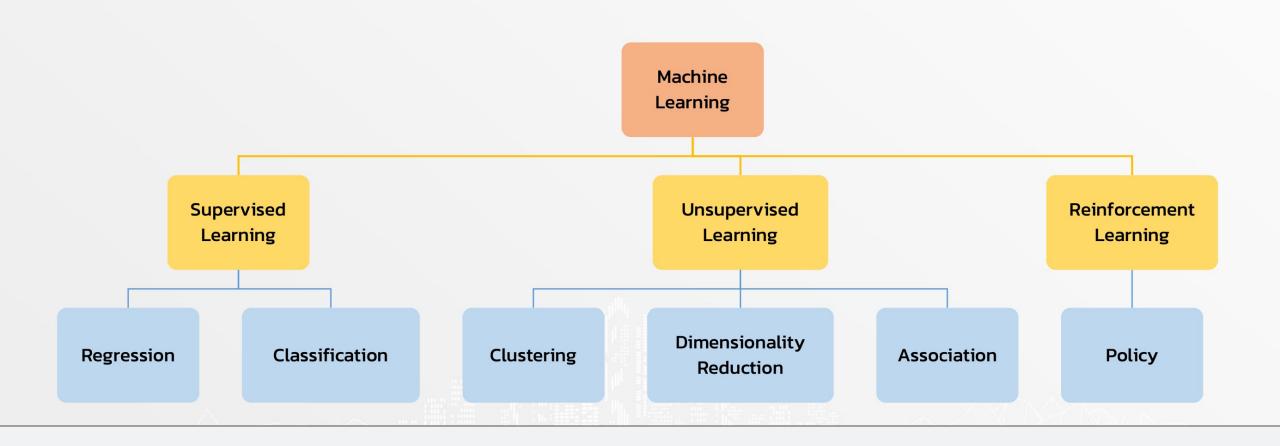
Supervised Learning



Unsupervised Learning

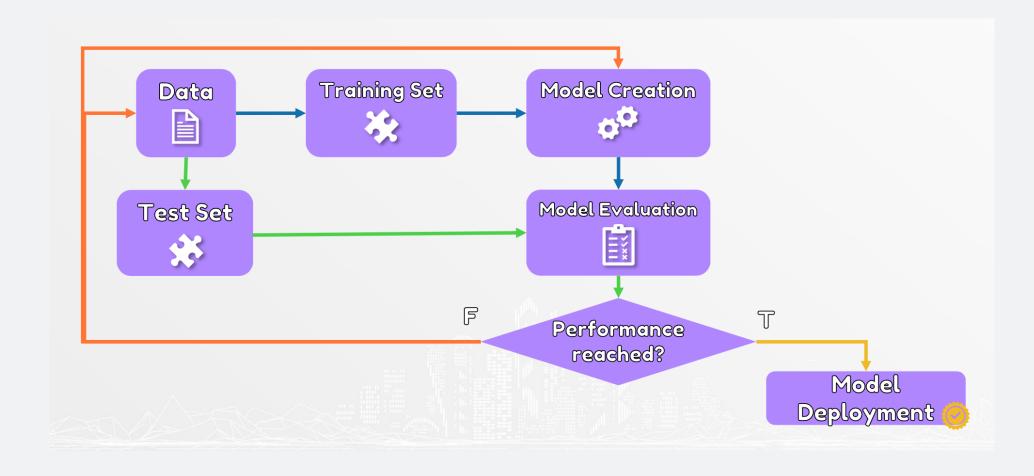


Reinforcement Learning



DISCRIMINATIVE AI

SUPERVISED LEARNING WORKFLOW



REAL FULL WORKFLOW



