

lec 01 - 기본적인 Machine Learning 의 용어와 개념 설명

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Why ML is needed?

- Limitations of explicit programming
 - Spam filter : many rules
 - Automatic driving : too many rules
- ML is defined by Arthur Samuel (1959)
 - "Field of study that gives computers has ability to learn without being explicitly programmed"

Classification of Learning Style

- Supervised learning
 - learning with labeled examples(=training set)
- Unsupervised learning
 - learning with un-labeled data

Supervised learning

- Most common problem type in ML
ex)
 - Image labeling : learning from tagged images
 - Email spam filter : learning from labeled (spam or ham) email
 - Predicting exam score : learning from previous exam score and time spent
- **Types of supervised learning**
 - **Regression**
ex) Predicting final exam score based on time spent
 - **Binary Classification**
ex) Pass or Non-pass based on time spent
 - **Multi-label Classification**
ex) Letter grade (A, B, C, D and F) based on time spent

TensorFlow Mechanics

