Final Exam

Machine Learning Course Telkom University

What You Have Learnt

Fundamental

- Machine Learning Concept
- Basic Model Linear, Tree, SVM, XGBoost, Neural Nets
- Deep Learning: Neural Nets, Convolution Nets and RNNs

Conceptual

- Ensemble Learning
- Data Visualization
- Exploratory Data Analysis

Practical

- Tools: Scikit-learn and Orange
- Libraries: Data Visualization, Pandas, Numpy, PyTorch, Tensorflow

Final Examination

Implement Common Convolution Neural Nets Model

- Reproduce ResNet
 - Make Technical Report Slides PDF
 - Paper Source: https://arxiv.org/pdf/1512.03385.pdf
 - Read and Summarize in Slides then Put on Git
 - Make Python Codes for ResNet
 - PyTorch or Tensorflow, Train on Collab, Put PYNB on Your Git
 - Dataset: MNIST, CIFAR10, IMAGENET, etc
 - Classification Task
- Reproduce DenseNet
 - Make Technical Report Slides PDF
 - o Paper Source: https://arxiv.org/pdf/1608.06993.pdf
 - Read and Summarize in Slides then Put on Git
 - Make Python Codes for ResNet
 - PyTorch or Tensorflow, Train on Collab, Put PYNB on Your Git
 - Dataset: MNIST, CIFAR10, IMAGENET, etc
 - Classification Task

Team Up to 3 Students UAS Period: 25 June - 9 July

Evaluation Period: 9 July - 13 July

Lifecycle

- Data Acquisition/Collection
- Data Preprocessing
- Data Validate
- Neural Network Models
- Model Serving