Raw Data

Level-0

Pre-Processing

Prediction

Learning

Evaluation

Raw Data

Level-0

Pre-Processing

Prediction

Learning

Evaluation

Cross Validation

Level-1

Training Data Set

Learnt Model

Feature Extraction and Scaling

Feature Selection

Sampling

Model Selection

Dimensionality Reduction

Raw Data

Level-0

Pre-Processing

Prediction

Learning

Evaluation

Cross Validation

Level-1

Test Data

Training Data Set

Level-2

Learnt Model

Feature Extraction and Scaling

Final Model

New Data

Feature Selection

Sampling

Model Selection

Performance Metric

Dimensionality Reduction