Mindluster Platform

About the course scikit learn

Course Presenter : Data School

scikit-learn, in this course we will learn about scikit-learn, one of the most powerful and widely used machine learning libraries in Python. You will explore how to build and evaluate machine learning models using tools for classification, regression, clustering, dimensionality reduction, and model selection. The course will guide you through essential steps like data preprocessing, splitting datasets, choosing the right algorithms, and fine-tuning model performance with cross-validation and grid search. You will also work with pipelines to streamline workflows and manage complex ML tasks more efficiently. With hands-on examples and real-world datasets, you will gain practical skills to implement models that make accurate predictions. Whether you're a beginner or looking to solidify your ML foundation, this course will help you master machine learning with scikit-learn and apply it confidently in data science projects. Basic Python and data handling knowledge are recommended. Data School

Programming Category's Courses

Course Lesson(51)

Lesson 1 : **Use ColumnTransformer to apply different preprocessing to different columns**

Lesson 2 : **Seven ways to select columns using ColumnTransformer**

Lesson 3 : **What is the difference between fit and transform**

Lesson 4 : **Use fit transform on training data but transform only on testing new data**

Lesson 5 : **Four reasons to use scikit learn not pandas for ML preprocessing**

Lesson 6 : **Encode categorical features using OneHotEncoder or OrdinalEncoder**

Lesson 7 : **Handle unknown categories with OneHotEncoder by encoding them as zeros**

Lesson 8 : **Use Pipeline to chain together multiple steps**

Lesson 9 : **Add a missing indicator to encode missingness as a feature**

Lesson 10 : **Set a random state to make your code reproducible**

Lesson 11 : **Impute missing values using KNNImputer or IterativeImputer**

Lesson 12 : **What is the difference between Pipeline and make pipeline**

Lesson 13 : **Examine the intermediate steps in a Pipeline**

Lesson 14 : **HistGradientBoostingClassifier natively supports missing values**

Lesson 15 : **Three reasons not to use drop first with OneHotEncoder**

Lesson 16 : **Use cross val score and GridSearchCV on a Pipeline**

Lesson 17 : **Try RandomizedSearchCV if GridSearchCV is taking too long**

Lesson 18 : **Display GridSearchCV or RandomizedSearchCV results in a DataFrame**

Lesson 19 : **Important tuning parameters for LogisticRegression**

Lesson 20 : **Plot a confusion matrix**

Lesson 21 : **Compare multiple ROC curves in a single plot**

Lesson 22 : **Use the correct methods for each type of Pipeline**

Lesson 23 : **Display the intercept and coefficients for a linear model**

Lesson 24 : **Visualize a decision tree two different ways**

Lesson 25 : **Prune a decision tree to avoid overfitting**

Lesson 26 : **Use stratified sampling with train test split**

Lesson 27 : **Two ways to impute missing values for a categorical feature**

Lesson 28 : **Save a model or Pipeline using joblib**

Lesson 29 : **Vectorize two text columns in a ColumnTransformer**

Lesson 30 : **Four ways to examine the steps of a Pipeline**

Lesson 31 : **Shuffle your dataset when using cross val score**

Lesson 32 : **Use AUC to evaluate multiclass problems**

Lesson 33 : **Use FunctionTransformer to convert functions into transformers**

Lesson 34 : **Add feature selection to a Pipeline**

Lesson 35 : **Don t use values when passing a pandas object to scikit learn**

Lesson 36 : **Most parameters should be passed as keyword arguments**

Lesson 37 : **Create an interactive diagram of a Pipeline in Jupyter**

Lesson 38 : **Get the feature names output by a ColumnTransformer**

Lesson 39 : **Load a toy dataset into a DataFrame**

Lesson 40 : **Estimators only print parameters that have been changed**

Lesson 41 : **Drop the first category from binary features only with OneHotEncoder**

Lesson 42 : **Passthrough some columns and drop others in a ColumnTransformer**

Lesson 43 : **Use OrdinalEncoder instead of OneHotEncoder with tree based models**

Lesson 44 : **Speed up GridSearchCV using parallel processing**

Lesson 45 : **Create feature interactions using PolynomialFeatures**

Lesson 46 : **Ensemble multiple models using VotingClassifer or VotingRegressor**

Lesson 47 : **Tune the parameters of a VotingClassifer or VotingRegressor**

Lesson 48 : **Access part of a Pipeline using slicing**

Lesson 49 : **Tune multiple models simultaneously with GridSearchCV**

Lesson 50 : **Adapt this pattern to solve many Machine Learning problems**

Lesson 51 : **My top 50 scikit learn tips**

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