The Data Science Course: 2020

Complete the Data Science Bootcamp

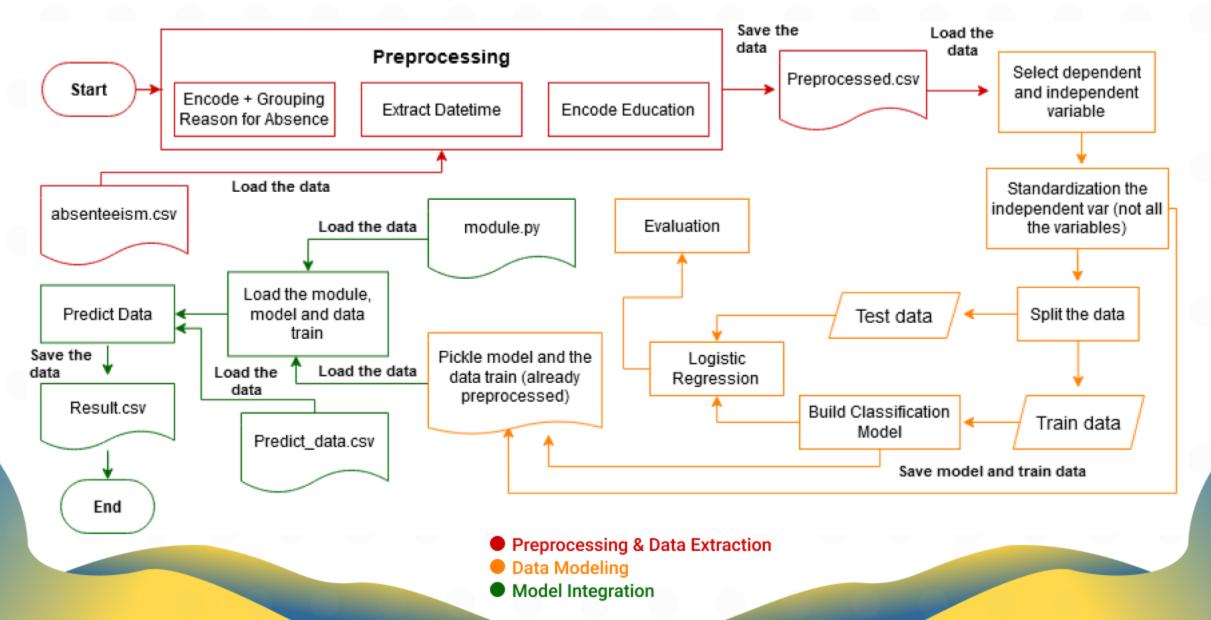
FREE COURSE **RESUME**



1 Udemy 365 III Careers

Predict Absenteeism

Using Logistic Regression (Last Project)



Notes For the Model Workflow Based on the Previous Slide

1) Divides the program file into three parts

The first file is used to analyze, extract and take some insight from the data (simple preprocessing).

The second file is used to build classification model, test the model and save train data + model using pickle.

The Third file is used to load our model and try to predict absenteeism value from data with empty label (model integration).

2 Data Preprocessing

I have done analyst the absenteeism reason and encoding the data in this process. But you can try to re-encode the data (using label or one hot encoding), make the data normally distributed (log, square root, box-cox, yeo-johson, etc), scale the data (StandardScaler), imbalance class handling (undersampling or over sampling), etc.

3 Build Model Classification

In this stape, I did not doing *hyperparameter tuning* to get the best parameter for the classifier (gridsearchev or randomizedsearchev). So you can try to implement this step if you run this code. Anyway, you can also *try other classifer model*, then compere the model accuracy and chose the best one.

4) Save model and train data

The easiest way to save the model and the data train is using *pickle library*. By save the model we don't need to re-train the classification model that wasted a lot of time. Just load the model in our module and start to predict new data.

5 Model Integration

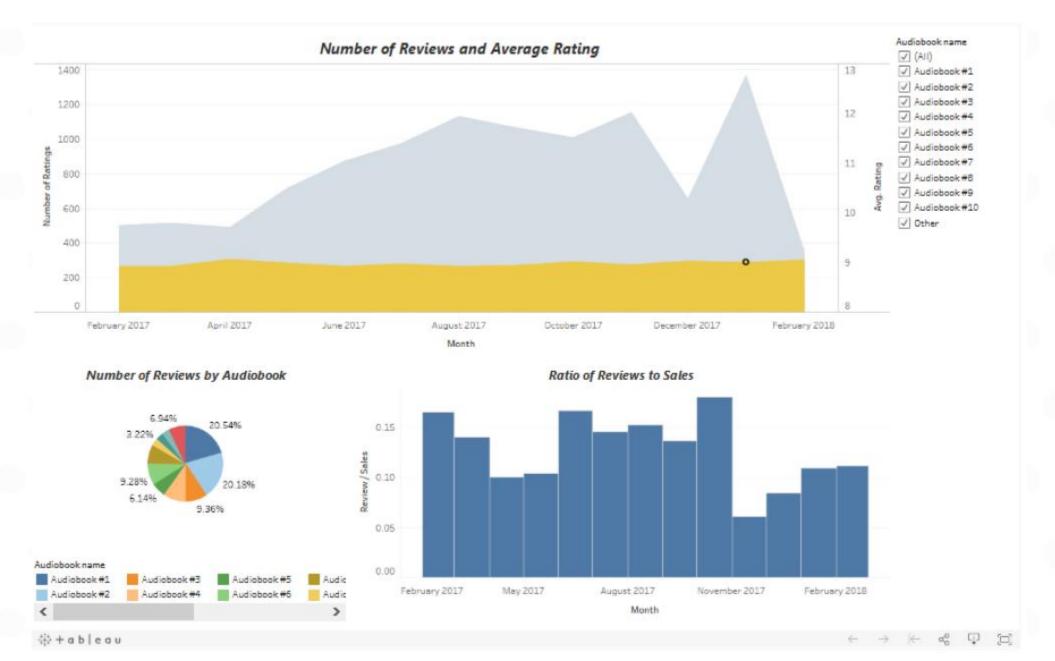
To integrate the model (step 4), you need to create a **module** (usually in .py format) where it can be use to load the model. This module is usually a class with various functions inside of it.

6 Predict the data

Firstly you need to import the module, use our model and train data inside the module then run the program. Now is the time to predict the new data by calling the module function.

Bonus Session, "analyze the result in Tableu Dasboard to get more insight from it."

This subject only focuses on model integration. So you can improve the model by yourself....





Start your journey

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P	irwanafandi24 Update README.md		0389c92 yesterday	3 commits
	1. Simple Linear Regression Stats Model	machine learning basic		yesterday
	10. Introduce to NN and Tensorflow	machine learning basic		yesterday
	2. Multiple Linear Regression	machine learning basic		yesterday
	3. Linear Regression with Prediction	machine learning basic		yesterday
	4. Single Linear Regression SKlearn	machine learning basic		yesterday
	5. Multiple Linear Regression SKlearn	machine learning basic		yesterday
	6. Full Linear Regression	machine learning basic		yesterday
	7. Basic Logistic Regression	machine learning basic		yesterday
	8. Binary Logistic Regression Impleme	machine learning basic		yesterday
	9. Kmeans & Dendogram (Clustering)	machine learning basic		yesterday
	Absenteeism Classification (Last Project)	machine learning basic		yesterday
	README.md	Update README.md		yesterday