

# Summary of

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## 1 Introduction

Asks you to predict the category of a dish's cuisine given a list of its ingredients. Test and submit the results .

ID	Cuisine	Ingredients
10259	greek	romaine lettuce, black olives, grape tomatoes...
25693	southernus	plain flour, ground pepper, salt, tomatoes, g...
20130	filipino	eggs, pepper, salt, mayonaise, cooking oil, g...
22213	indian	water, vegetable oil, wheat, salt]
13162	indian	black pepper, shallots, cornflour, cayenne pe...

## 2 Data Analysls

To better process the data, we need to do the following:

- 1 Count the total data of training set and test set.  
train shape: 39774  
test shape: 9944
- 2 directional derivative, gradient, Sample variance, conditional probability formula.
- 3 Supervised and unsupervised learning.

This part mainly learns theoretical knowledge, and I mainly focus on understanding concepts. However, calculations such as loss function and empirical risk still need to be combined with actual case theory to fully grasp.

## 3 NLP Analysls

I spent about two days learning python. After installing anaconda3, I started to learn the video of getting started with python.  
Learned the python syntax format, calling functions, reading and writing files, importing third-party libraries and object-oriented programming.

After two days of study, I probably mastered the basic python syntax and ran the code in the first three files of the git repository. But it still takes time to continue learning this part.

## 4 Modeling

As cloud storage technology becomes more and more popular, you still have to bear risks when data is placed in the cloud, and similar events will occur in the future. The availability of cloud storage is good, but security is difficult to guarantee. Cloud storage merchants can definitely see the user's data, but merchants are subject to legal restrictions.

Here Professor Li makes four suggestions:

- 1 Try to choose a cloud storage service with a high level of security.
- 2 Turn off some default automatic synchronization.
- 3 Enable secondary authentication when logging in to the cloud disk.
- 4 Data security experts can use third-party encryption software to encrypt their data.

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