Summary of the week

Siyu Chen

Xi'an Shiyou University 785987165@qq.com

1 Github and LaTeX learning

Browse the content of the syllabus,It took about three days and 4 hours of study every day.First completed the installation of Latex and Git, and configured the environment.

By collecting LaTeX related videos, learn about latex article compilation, alignment, mathematical formulas, syntax highlighting, etc.

The learning of Git and GitHub is done by watching videos and practicing. Mainly learn how to clone files from remote warehouses and how to upload files to remote warehouses. Pay attention to conflicts in daily applications.

The learning of Git and GitHub is easier than LaTeX. The learning of LaTeX requires frequent access to materials and apply them in practice. Since I have not done too many LaTeX exercises, this part needs to be practiced frequently.

2 SIT717 and Machine learning

I get documents about SIT717 in GitHub, learn the related videos, and study 5 hours a day for two days.

I learn some data mining, data preprocessing basic concepts, K-means and K-medoids algorithm content by studying the course of Professor Li in the SIT717 folder.

After learning a little about SIT717, I checked the video about machine learning and reviewed the basic knowledge of linear algebra and probability theory.

1 Linear algebra operation rules.
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 Python basics

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 Driver's license folder can be viewed publicly

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.