**Summary of interview English questions**

2022.7.20

Common Sentences

1. That's rather a difficult question, but I wonder if you could give me more information about that.
2. Sorry, I didn't understand/get/catch the word+某个单词， could you explain it, please?
3. I'm afraid that I'm not quite familiar with this topic/field/domain, but from mv point of view/in my opinion,+关键词相关内容……
4. Thanks for your compliment. I am far from perfect. I will continue to work hard in the future.

Common Problem

1. Introduce the research background and main work of your dissertation?

Reply: Stochastic configuration networks (SCN) have both the advantages of random algorithms and incremental learning, and are suitable for application in the field of human behavior recognition.

In order to find a lightweight human action recognition method and improve the shortcomings of SCN, we proposed a lightweight incremental Learning Network (LILN) . First, an equivalent equation with a square coefficient matrix is proposed to replace the overdetermined equation to avoid the Moore-Penrose generalized inverse method, and it is proved that to understand the consistency of their solutions. Secondly, a low-complexity method based on LU matrix factorization is proposed, which reduces the complexity of calculating output weights. Finally, the model proposed in this paper is simulated and verified on the UCI-HAR dataset.

The results show that the LILN model improves the shortcomings of SCN in lightweight applications, and proposes a feasible method for lightweight human behavior recognition. Thank you!

2.Tell us about your follow-up research plan?

Reply: After a detailed communication with Mr. Lu Wenjun last month, I checked a lot of literature and opt for Explainable Artificial Intelligence plus geology as the direction of my research finally.

Firstly, the research is very attractive to me. Whether it is explainable artificial intelligence or geosciences, I am interested in the direction. Secondly, my undergraduate major is related to machine learning. I am keen on the direction and able to do well in both practice and research.

That is why I choose the Explainable Artificial Intelligence plus geology as the direction of my research. Thank you!

3.Some people say that neural networks are fake scientific research, talk about your understanding?

Reply: First of all, I think this statement is completely false.

Based on neural networks, scientists have developed many useful models that are well applied in many fields of modern society, such as face payment, voice input, autonomous driving, and so on. The above is enough to confirm that the research of neural network is not fake scientific research, but can promote the development of society.

In addition, the interpretability problem of neural networks is indeed not well solved now, which may be the reason why some people think that neural networks are fake research. However, the fact that the neural network itself is a black box model does not affect its usefulness.

That’s all , thank you!

4. What's your favorite hobby?

Reply: I like photography.

For me, photography is the art of observing, finding interesting things in ordinary places. In addition, I also made a group of like-minded friends through photography, and in the process, I exercised my language skills and interpersonal skills.

That’s all , thank you!

5. What do you think about your strengths?

Reply: I have a strong leadership skill while possessing a great team spirit.

Over the past three years, I have also done a lot of interesting things with my personal leadership. In the class, I served as the monitor and led the class to be awarded the "School-level Advanced Class Group". In addition, I served as the chairman of the student workstation of cpc in CUMT. During this period, I was selected as an outstanding student leader in Jiangsu Province. Besides, I presided 2 National College Students' innovation training program and led the team to some great results.

That’s all , thank you!

6.What do you think about your weakness?

Reply: Sometimes I have a hard time saying no to people, and I end up taking on more than my fair share of the work.

But I am also happy that I can help others. Therefore, I don't think it's a complete defect that I don't know how to refuse others. As long as it is within my ability, I still hope to reach out as much as possible.

That’s all , thank you!

7.Tell something about your hometown

Reply: I am from Liaocheng, Shandong Province, which is considered as Jiangbei Water City.

The climate in my hometown is not very good, when people joke, they say it is Jiangbei Soil City, but I love my hometown because the barren land here nourishes kindness and my hometown is a part of my life.

People here are straightforward and full of passion as well, and I'm no exception. Because of my good character, I made many like-minded friends in university.

That’s all , thank you!

8.Could you tell me something about your family?

Reply: My family is not big but very warm and harmonious. There are three people in my family: father, mother , elder sister and I.

Both my parents were farmers and they were not highly educated, but they are very democratic. In the family, my demands and interests will be fully respected by my parents

I think my curiosity and creativity have a lot to do with my family atmosphere.

I will try my best to live up to their expectations and show much gratitude to them. Thank you!

9. Could you tell us somethmg about your university?

Reply: I had studied in China University of Mining and Technology since 2017.

Although it is not well-kown as University of Science and Technology of China, I still appreciate it because it offers me a chance to develop my abilities. During my college years, I have made a rapid and great progress in many areas.

As a student, I studied very hard, obtained scholarship many times, and also gained good comments from teachers and classmates. Three years' study had made me an independent, optimistic and strict boy. I really appreciated the education CUMT gave me.

That’s all , thank you!

10. What is your favorite subject and why?

Reply: My favorite course is Automatic Control Theory.

One of the important reasons why I like this course is that the teacher of this course is my academic model .

I have began my scientific research under the guidance of Professor Dai Wei since 2019, a top-notch young talent in the National Ten Thousand Talents Program. During this period, Mr. Dai gave me a lot of help in software programming, thesis writing, etc. As a result, I was also more focused during class and finally got a good grade of 96.

At the same time, I think the course is the core course of the automation major, through which I have a deeper understanding of the entire major.

That’s all , thank you!