Scale:

|  |  |
| --- | --- |
| Strongly agree | 7 |
| Agree | 6 |
| Somewhat agree | 5 |
| Neither agree nor disagree | 4 |
| Somewhat disagree | 3 |
| Disagree | 2 |
| Strong disagree | 1 |

Q = Quality

A = Accuracy

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **7B** | | **7B-LoRA** | | **70B** | | **70B-LoRA** | | **Student** | | **RAG** | | **GPT-4** | |
|  | **A** | **Q** | **A** | **Q** | **A** | **Q** | **A** | **Q** | **A** | **Q** | **A** | **Q** | **A** | **Q** |
| **1** | 7 | 6 | 7 | 5 | 6 | 3 | 5 | 6 | 6 | 4 | 5 | 4 | 7 | 7 |
| **2** | 3 | 3 | 4 | 4 | 6 | 6 | 6 | 6 | 5 | 4 | 1 | 1 | 7 | 7 |
| **3** | 1 | 1 | 1 | 1 | 1 | 1 | 4 | 4 | 1 | 1 | 7 | 7 | 7 | 7 |
| **4** | 2 | 2 | 1 | 1 | 7 | 7 | 3 | 2 | 7 | 7 | 7 | 7 | 7 | 7 |
| **5** | 7 | 7 | 7 | 7 | 7 | 7 | 5 | 5 | 7 | 7 | 7 | 5 | 7 | 7 |
| **6** | 6 | 7 | 7 | 6 | 6 | 6 | 5 | 5 | 5 | 4 | 3 | 2 | 7 | 6 |
| **7** | 6 | 5 | 4 | 4 | 3 | 2 | 5 | 5 | 6 | 5 | 3 | 3 | 7 | 7 |
| **8** | 5 | 5 | 6 | 5 | 4 | 5 | 5 | 5 | 2 | 2 | 1 | 1 | 7 | 7 |
| **9** | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 6 | 1 | 1 | 6 | 3 | 7 | 7 |
| **10** | 5 | 4 | 3 | 3 | 6 | 6 | 5 | 6 | 1 | 1 | 6 | 6 | 6 | 6 |
| **11** | 5 | 4 | 3 | 3 | 6 | 6 | 5 | 6 | 5 | 5 | 6 | 5 | 6 | 6 |
| **12** | 1 | 1 | 1 | 1 | 2 | 2 | 3 | 3 | 2 | 2 | 5 | 5 | 7 | 7 |
| **13** | 2 | 2 | 4 | 4 | 4 | 4 | 5 | 6 | 4 | 4 | 4 | 3 | 7 | 7 |
| **14** | 4 | 3 | 4 | 4 | 5 | 3 | 5 | 4 | 5 | 3 | 6 | 6 | 7 | 7 |
| **15** | 4 | 3 | 5 | 4 | 5 | 5 | 6 | 6 | 4 | 4 | 4 | 4 | 7 | 7 |
| **16** | 4 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 2 | 2 | 5 | 5 | 7 | 6 |
| **17** | 4 | 5 | 3 | 3 | 7 | 7 | 6 | 5 | 2 | 2 | 4 | 4 | 7 | 7 |
| **18** | 2 | 2 | 3 | 3 | 4 | 3 | 1 | 1 | 3 | 3 | 3 | 3 | 7 | 7 |
| **19** | 2 | 2 | 5 | 5 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 7 | 7 |
| **20** | 1 | 1 | 4 | 4 | 1 | 1 | 4 | 4 | 1 | 1 | 1 | 1 | 7 | 7 |
| **21** | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 6 | 5 |
| **22** | 7 | 7 | 6 | 7 | 7 | 6 | 7 | 7 | 5 | 5 | 3 | 3 | 7 | 7 |
| **23** | 2 | 2 | 4 | 3 | 2 | 2 | 1 | 1 | 3 | 3 | 3 | 2 | 6 | 6 |
| **24** | 5 | 5 | 3 | 3 | 5 | 6 | 2 | 2 | 3 | 3 | 6 | 6 | 7 | 7 |
| **25** | 1 | 1 | 1 | 1 | 3 | 3 | 1 | 1 | 3 | 3 | 4 | 4 | 7 | 7 |
| **26** | 4 | 4 | 3 | 3 | 3 | 3 | 6 | 5 | 4 | 4 | 7 | 7 | 7 | 7 |
| **27** | 3 | 3 | 3 | 2 | 3 | 3 | 1 | 1 | 3 | 3 | 5 | 5 | 7 | 7 |
| **28** | 1 | 1 | 3 | 2 | 1 | 1 | 3 | 3 | 1 | 1 | 6 | 5 | 7 | 7 |
| **29** | 2 | 2 | 1 | 1 | 1 | 1 | 6 | 6 | 2 | 2 | 6 | 5 | 7 | 7 |
| **30** | 3 | 3 | 3 | 2 | 3 | 3 | 2 | 2 | 1 | 1 | 3 | 2 | 7 | 7 |
| **31** | 1 | 1 | 1 | 1 | 5 | 4 | 6 | 7 | 1 | 1 | 2 | 2 | 7 | 7 |
| **32** | 5 | 5 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 4 | 4 | 4 | 7 | 7 |
| **33** | 5 | 5 | 4 | 4 | 6 | 5 | 6 | 5 | 6 | 5 | 1 | 1 | 7 | 7 |
| **34** | 2 | 2 | 2 | 2 | 4 | 5 | 5 | 4 | 2 | 2 | 6 | 3 | 6 | 5 |
| **35** | 2 | 2 | 3 | 3 | 5 | 5 | 6 | 6 | 5 | 6 | 5 | 3 | 7 | 6 |
| **36** | 3 | 3 | 4 | 4 | 5 | 5 | 6 | 6 | 6 | 6 | 3 | 3 | 7 | 6 |
| **37** | 6 | 6 | 7 | 7 | 6 | 6 | 6 | 6 | 6 | 6 | 4 | 4 | 7 | 7 |
| **38** | 3 | 3 | 1 | 1 | 5 | 3 | 5 | 4 | 1 | 1 | 2 | 2 | 7 | 7 |
| **39** | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 5 | 3 | 6 | 6 |
| **40** | 2 | 2 | 3 | 3 | 7 | 7 | 4 | 3 | 6 | 5 | 6 | 6 | 7 | 7 |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **7B** | | | **7B-LoRA** | | | **70B** | | | **70B-LoRA** | | | **Student** | | | **RAG** | | |
|  | **A** | **Q** | **User messages** | **A** | **Q** | **User messages** | **A** | **Q** | **User messages** | **A** | **Q** | **User messages** | **A** | **Q** | **User messages** | **A** | **Q** | **User messages** |
| **1** | 4 | 3 | 1 | 6 | 4 | 2 |  |  |  |  |  |  |  |  |  |  |  |  |
| **2** | 1 | 1 | 3 | 5 | 4 | 12 |  |  |  |  |  |  |  |  |  |  |  |  |
| **3** | 4 | 3 | 3 | 1 | 1 | 7 |  |  |  |  |  |  |  |  |  |  |  |  |
| **4** | 1 | 1 | 4 | 5 | 4 | 8 |  |  |  |  |  |  |  |  |  |  |  |  |
| **5** | 1 | 1 | 4 | 7 | 7 | 1 |  |  |  |  |  |  |  |  |  |  |  |  |