1430 G. Additional Results on LLaVA-13B

GA/Forget Quality	Unlearn A	Unlearn B	Unlearn C	Unlearn D
Task A	0.485	0.07	0.035	0.015
Task B		0.057	0.022	0.011
Task C			0.1	0.08
Task D				0.03

Table 22. GA's results of forget quality.

GA/Model Utility	Unlearn A	Unlearn B	Unlearn C	Unlearn D
Task A	0.384	0.01	0	0
Task B		0.25	0.15	0.125
Task C			0.1	0.08
Task D				0.2

Table 23. GA's results of model utility.

KL/Forget Quality	Unlearn A	Unlearn B	Unlearn C	Unlearn D
Task A	0.47	0.145	0.02	0.04
Task B		0.113	0.03	0.028
Task C			0.105	0.095
Task D				0.065

Table 24. KL's results of forget quality.

KL/Model Utility	Unlearn A	Unlearn B	Unlearn C	Unlearn D
Task A	0.538	0.03	0	0
Task B		0.325	0.116	0.125
Task C			0.04	0.038
Task D				0.115

Table 25. KL's results of model utility.

GD/Forget Quality	Unlearn A	Unlearn B	Unlearn C	Unlearn D
Task A	0.34	0.005	0.005	0
Task B		0.005	0.01	0.005
Task C			0.025	0.01
Task D				0.02

Table 26. GD's results of forget quality.

GD/Model Utility	Unlearn A	Unlearn B	Unlearn C	Unlearn D
Task A	0.06	0	0	0
Task B		0.25	0.175	0.125
Task C			0.06	0.07
Task D				0.04

Table 27. GD's results of model utility.

1405	
1485 1486	
1487	
1.400	
1489 1490	
1490	
1491	
1491 1492	
1493	
1494	
1495	
1496	
1497	
1498	
1499	
1500	
1501	
1502	
1503	
1504	
1505	
1506	
1506 1507 1508 1509	
1500	
1510	
1210	
1511	
1510 1511 1512	
1512	
1512 1513	
1512 1513 1514	
1512 1513 1514 1515	
1512 1513 1514 1515 1516	
1512 1513 1514 1515 1516 1517	
1512 1513 1514 1515 1516 1517 1518	
1512 1513 1514 1515 1516 1517 1518 1519 1520	
1512 1513 1514 1515 1516 1517 1518 1519 1520	
1512 1513 1514 1515 1516 1517 1518 1519 1520 1521 1522	
1512 1513 1514 1515 1516 1517 1518 1519 1520 1521 1522 1523	
1512 1513 1514 1515 1516 1517 1518 1519 1520 1521 1522 1523 1524	
1512 1513 1514 1515 1516 1517 1518 1519 1520 1521 1522 1523 1524 1525	
1512 1513 1514 1515 1516 1517 1518 1519 1520 1521 1522 1523 1524 1525 1526	
1512 1513 1514 1515 1516 1517 1518 1519 1520 1521 1522 1523 1524 1525 1526 1527	
1512 1513 1514 1515 1516 1517 1518 1519 1520 1521 1522 1523 1524 1525 1526 1527 1528	
1512 1513 1514 1515 1516 1517 1518 1519 1520 1521 1522 1523 1524 1525 1526 1527 1528 1529	
1512 1513 1514 1515 1516 1517 1518 1519 1520 1521 1522 1523 1524 1525 1526 1527 1528 1529 1530	
1512 1513 1514 1515 1516 1517 1518 1519 1520 1521 1522 1523 1524 1525 1526 1527 1528 1529 1530 1531	
1512 1513 1514 1515 1516 1517 1518 1519 1520 1521 1522 1523 1524 1525 1526 1527 1528 1529 1530 1531 1532	
1512 1513 1514 1515 1516 1517 1518 1519 1520 1521 1522 1523 1524 1525 1526 1527 1528 1529 1530 1531 1532 1533	
1512 1513 1514 1515 1516 1517 1518 1519 1520 1521 1522 1523 1524 1525 1526 1527 1528 1529 1530 1531 1532 1533 1534	
1512 1513 1514 1515 1516 1517 1518 1519 1520 1521 1522 1523 1524 1525 1526 1527 1528 1530 1531 1532 1533 1534 1535	
1512 1513 1514 1515 1516 1517 1518 1519 1520 1521 1522 1523 1524 1525 1526 1527 1528 1529 1530 1531 1532 1533 1534	

15381539

NPO/Forget Quality	Unlearn A	Unlearn B	Unlearn C	Unlearn D
Task A	0.51	0.03	0	0
Task B		0.05	0	0
Task C			0	0
Task D				0

Table 28. NPO's results of forget quality.

NPO/Model Utility	Unlearn A	Unlearn B	Unlearn C	Unlearn D
Task A	0.084	0	0	0
Task B		0	0	0
Task C			0	0
Task D				0

Table 29. NPO's results of model utility.

LUMoE/Forget Quality	Unlearn A	Unlearn B	Unlearn C	Unlearn D
Task A	1	1	1	1
Task B		0.95	0.95	0.95
Task C			1	1
Task D				0.98

Table 30. LUMoE's results of forget quality.

LUMoE/Model Utility	Unlearn A	Unlearn B	Unlearn C	Unlearn D
Task A	0.95	0.95	0.95	0.95
Task B		0.90	0.90	0.90
Task C			0.92	0.92
Task D				0.94

Table 31. LUMoE's results of model utility.