

610217

2020

2020 6 10

2020 7 6

2020 7 10

.....	1
.....	1
.....	1
.....	1
.....	2
.....	2
.....	2
.....	4
.....	4
.....	10
.....	10
.....	21
.....	21
.....	21
.....	23
.....	24
.....	24
.....	24
.....	25
.....	27
.....	27
.....	27
.....	27
.....	28
.....	28
.....	28
1	29

610217

3

5

1

1

)		
61	6102	65	2-02-10-03 2-02-10-09	AI AI	1+X
		39	2-02-07-13		

2015

1	AI		1. 2. 3.
2	AI		1. 2. 3. AI
3			1. 2. 3. 4.

“ +”“ +”

Python

8

9

10 AI

11 AI

12

3.

1

2

3

1 C

2 Python

3 AI

4

5

6

7 AI AI

AI

8 AI AI

9 AI

1.

3

	2.			
	1. 2. 3.	1. 2. 3.	” “ +	32
	1. 2. 3.			
	1. 1-2 ;2. 3.	1.		
	1. 1-2 2. 3.	2.	” “ +	108
	1. 2.	3.		
	3.	4.		
		1.		
		2.		
		3.	” “ +	148
	1.	4.		
	2.			

		5. 6. 7.		
	1. 2. 1. 2. 1. 2.	1. 2. 3. 4. 5. 6.	” “ + ”	44
	1. 2. 1. 2.	1. 2. 3. 4. 5.	” “ + ” + 40% 40% 20%	10
		1. 2. 3. 4. 5. 8. 9.	” “ ” ”	

2.

4

4

	1. 2. 3.	1. 2.		
	1. 2.	3. 4. 5.		48
	1. 2. 3.	1. 2. 3. 4. 5. 6.	+	48
	1. 2.	1. 2. 3.		48

		4.		
	1. 2. 3.	1. 2. 3. 4.	” “ +	24
			60% + 40%	

3.

8

1.

5

5

	1. 2. 3. 4.	1. 2. 3.		52

	5. 6. 1. 2. 3. 1. 2.	4. 5. 6.	40%+ 60%	
	1. 3. 4. 1. 3. 4. 1. 2.	2. 1. 2. 3. 4. 2. 4.	TCP/IP 40%+ 60%	52
	1. 1. 2. 1. 2.	1. 2. 3.	40%+ 60%	26

	Linux 1. Linux 2. Linux 1. 2.	3. 4. 5. 6. 7. 8.Shell	40%+ 60%	
Python	1. Python Python 3. Python 1. Python Help 1. 2.	1.Python 2. Python 3.Python 4. 5. 6. 7. 8. 9. 10. 11. 12.Numpy	Python 40%+ 60%	64

2.

6

6

	1. GPS AGPS 2. 3. 4. GPS	1. GPS AGPS 2. 3.		64

	<p>5. WIFI</p> <p>6.</p> <p>7.</p> <p>8.</p> <p>1. GPS</p> <p>2.</p> <p>3.</p> <p>4.</p> <p>WIFI</p> <p>5.</p> <p>6.</p> <p>7.</p> <p>1.</p> <p>2.</p> <p>3.</p> <p>4.</p> <p>5</p>	<p>5.WIFI</p> <p>6.</p> <p>7.</p> <p>7.</p> <p>7.</p> <p>9.</p> <p>10.</p>	<p>40%+</p> <p>60%</p>	
	<p>1. Pycharm</p> <p>2. TensorFlow</p> <p>3.</p> <p>1. Pycharm</p> <p>TensorFlow ;2.</p> <p>TensorFlow</p>	<p>1 AI</p> <p>2.Pycharm</p> <p>3.TensorFlow</p> <p>4.Scikit-learn</p> <p>5.</p> <p>6.</p>	<p>AI</p>	<p>112</p>

	<ol style="list-style-type: none"> 1. 2. 	<ol style="list-style-type: none"> 7.K- 8. -MNIST 9.MLP -MNIST 	<p>40%+</p> <p>60%</p>	
	<ol style="list-style-type: none"> 1. 2. I/O 3. ARM 4. ARM <ol style="list-style-type: none"> 1. C 2. 3. <ol style="list-style-type: none"> 1. 2. 	<ol style="list-style-type: none"> 1. 2. 3. 	<p>+</p> <p>40%+ 60%</p>	64
	<ol style="list-style-type: none"> 1. 2. Python 3. 4. Python 5. NLP <ol style="list-style-type: none"> 1. TensorFlow 2. Python 3. 	<ol style="list-style-type: none"> 1. 2. 3.Python 4.Python 5. 6. 7. 8. 9. 10. 11 	<p>+</p> <p>40%+ 60%</p>	64

	<ol style="list-style-type: none"> 1. 2. 3. 			
	<ol style="list-style-type: none"> 1. Python Numpy Pandas 2. Python 3. Python 	<ol style="list-style-type: none"> 1. Python 2. Python 3. Python Numpy 4. Python Pandas 5. Python Mysql 6. Python Matplotlib 7. Help 	<p>+</p> <p>40%+ 60%</p>	112
	<ol style="list-style-type: none"> 1. TensorFlow Keras 2. TensorFlow Keras 3. Sequential Keras 	<ol style="list-style-type: none"> 1. Keras 2. TensorBoard 3. CNN -CIFAR10 4. CNN - 5. VGG - 6. VGG - 	<p>40%+ 60%</p>	64

	1. 2.	7. YOLOV3-VOC		
	1. 2. 1. 2. 1. 2.	1. 2. 3.	+ 40%+ 60%	64

3.

7

7

	1. 2. 3. 1. 2. 1. 2.	1. 2.AI 3. 4.	60%+ 40%	144

	<ul style="list-style-type: none"> 1. 2. <ul style="list-style-type: none"> 1. 2. <ul style="list-style-type: none"> 1. 2. 	<ul style="list-style-type: none"> 1. 2. 3. 		20	
MySql	<ul style="list-style-type: none"> 1. MySql 2. MySql 3. <ul style="list-style-type: none"> 1. MySQL 2. MySQL 3. <ul style="list-style-type: none"> 1. 2. 	<ul style="list-style-type: none"> 1. 2. 3. 4. 5. 6. 	40%+	60%	48
Python	<ul style="list-style-type: none"> 1. Python 2. <ul style="list-style-type: none"> 3. <ul style="list-style-type: none"> 1. Python 2. Help 	<ul style="list-style-type: none"> 1. Python 2. 3. request urllib3 4. HTML 5. 6. Scrapy 7. 			30

	1 2.		60%+ 40%	
	1 2 3 Excel	1. Matplotlib 2. Pyecharts 3. Pyecharts 4. Pyecharts API 5. Pyecharts 6. Tableau		48
	1 PyEcharts 3 BI	1. Tableau 2. Tableau 8. Tableau	60%+ 40%	
AI	1. 2. 1. 2. 3. 1. 2.	1. 2. 3. 4. 5. 6.	 +	48
AI	1. 2.	1. 2.	60%+ 40%	48

	3. AI 1. 2. AI 1. 2.	3. 4. AI 5.AI	+ 60%+ 40%	
	1. 2. 3. 1. 2.	1. 2. 3. 4. 5. 6.	 60%+ 40%	48

9

1	13		1		1	3	1	1	20	5	25
2	18						1	1	20	7	27
3	18						1	1	20	5	25
4	18				1			1	20	7	27
5	7	5		2	6		1	1	22	3	25

6				22					22		22
	75	5		24	8	3	4	5	124	27	151

10

											/						
											1	2	3	4	5	6	
											20	20	20	20	22	22	
				1701009	3	48	48	0	A	C	2*12	2*12					2
				1701002	4	72	72	0	A	C			2*18	2*18			4
				1701012	2	32	32	0	A	C	2*4	2*4	2*4	2*4			
				0501003	2	32	32	0	A	C	2*8	2*8					2
				2002069	4	108	0	108	B	C	2*12	2*12	2*12	2*12			12
				0501010	2	112	0	112	C	C	3W						14 *8
				0501028	2	36	36	0	A	C							
				2001005	0.5	10	10	0	A	C	2*5						
				0501043	1	24		24	C	C	1W						
				0501044	1	20	20		A	C	4H	4H	4H	4H	4H		
				0501022	5				B	C	1	1	1	1	1		
					26.5	494	250	244			6	6	4	4	0	0	
				2001014	3	48	48	0	A	C	2*12	2*12					2
				2002264	3	48	48	0	A	C	2*12	2*12					1
				2001008	3	48	48	0	A	C	4*12						
				0601011	2	32	32	0	A	C		2*8	2*8				
				2402374	1.5	24	12	12	A	C			2*12				
				1802578	2	36	18	18	A	C							
				2402375	1	24	0	24	B	C				1W			
					15.5	296	224	72			8	4	2	0	0	0	
				2-5					8					1			
					8	160	80	80									
					50	950	554	396									
				2402102	3	52	26	26	B	S	4*13						
				2202760	3	52	26	26	B	S	4*13						
				2202678	1.5	26	26	0	A	S	2*13						
				2402470	3	48	24	24	B	S		4*12					

									/						
									1	2	3	4	5	6	
									20	20	20	20	22	22	
C	2402177	4	64	32	32	B	S		8*8					8	
Linux	2202487	4	64	32	32	B	S		4*16						
Python	2202680	4	64	32	32	B	S			4*16					
		22.5	370	198	172			10	16	4	0	0	0		
★	2202924	4	64	32	32	B	S		8*8					8	
	2202743	6	112	56	56	B	S			8*14					
	2402079	4	64	32	32	B	S			8*8				8	
	2402357	4	64	32	32	B	S			8*8				8	
	2202682	6	112	36	76	B	S				8*14				
	2202744	4	64	32	32	B	S				8*8			8	
★	2202925	4	64	32	32	B	S				8*8			8	
		32	544	252	292				8	16	16				
★	2202300	6	144	0	144	C	C					24*6			
	1701018	24	480	0	480	C	C					2W	22W		
	0601004	5	120	0	120	C	C					5W			
		35	744	0	744			0	0	0	0	24	0		
	2301049	1	20	20	0	A	C		2*10						
MySql	102214	3	48	24	24	B	C	4*12							
Python	2202634	1.5	30	15	15	B	C			2*15					
	2202548	3	48	24	24	B	C				4*12				
AI	2202685	3	48	24	24	B	C				4*12				
	2202780	3	48	24	24	B	C					4*12			
AI	2202684	3	48	24	24	B	C				4*12				
		11.5	194	107	87			4	2	2	4	4			
		101	1852	557	1295			14	18	20	20	24	0		
		151	2802	1111	1691			28	28	28	24	28	0		

1. “ ”
2. A B + C
3. 3 4 C S
4. “ ” X “★”

4.

3

“ + ” “
”

1.

Wi-Fi

2.

40

12

12

1			GPU 45
2			Huawei HiLens HiLens AI 45
3		python	45 1 1 1 1 1 41 1 40 40
4			1. 40 2.
5			45 1 1 1 1

1.

2.

3.

“ ”

60%

40%

1. 2020

2.

3.

4.

1. 142

2.

3.

4.

	1		2101003	1		31	T	2108040	1
	2		2103024	1		32		2108041	1
	3		2105004	1		33		2108042	1
	4		2108016	1		34		2108043	2
	6	—	2108036	1		36	—	2108058	1
	7		2108047	1		37		2108059	1
	8		2108063	1		38		2108060	2
	9		2108064	1		39		2108061	1
	10		2108065	1		40		2108138	1
	11		2108069	1		41		2108139	1
	12		2108001	1		42		2108140	1
	13		2108005	1		43		2108141	1
	14		2108025	1		44		2108148	1
	15	—	2108029	1		45		2108152	1
	16		2108133	1		46		2108007	1
	17		2106005	1		47		2108018	1
	18		2106006	1		48		2108048	1
	19		2108013	1		49		2108053	1
	20		2108052	1		50		2108066	1
	21		2108070	1		51		2108073	1
	22		2108072	1		52		2108236	1
	23		2108020	1		53		2108239	1
	24		2102004	1		54		2108026	1
	25		2102007	1		55		2108049	1
	26		2103029	1		56		2108051	1
	27		2108017	2		57		2108071	1
	28		2108030	1		58		2108231	1
	29		2108034	1		59		2108232	1
	30		2108039	2		60		2108233	1