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61	6102	65	2-02-10-03 2-02-10-09	AI AI	1+X
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2015

1	AI		1. 2. 3.
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Python

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	1. 2.	1. 2. 3. 4. 5.	” “ +	48
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	1. 2. 1. 2. 1. 2.	1. 2. 3. 4. 5. 6.	” “ + ”	44
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			60% + 40%	

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	1. 1. 2. 1. 2.	1. 2. 3.	40%+ 60%	26

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	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

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	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>.</p>	<p>5.WIFI</p> <p>6.</p> <p>7.</p> <p>7.</p> <p>7.</p> <p>9.</p> <p>10.</p> <p>10.</p> <p>3.</p> <p>4.</p> <p>5.</p> <p>6.</p> <p>7.</p> <p>8.</p> <p>9.</p> <p>10.</p> <p>11.</p> <p>12.</p> <p>13.</p> <p>14.</p> <p>15.</p> <p>16.</p> <p>17.</p> <p>18.</p> <p>19.</p> <p>20.</p> <p>21.</p> <p>22.</p> <p>23.</p> <p>24.</p> <p>25.</p> <p>26.</p> <p>27.</p> <p>28.</p> <p>29.</p> <p>30.</p> <p>31.</p> <p>32.</p> <p>33.</p> <p>34.</p> <p>35.</p> <p>36.</p> <p>37.</p> <p>38.</p> <p>39.</p> <p>40.</p> <p>41.</p> <p>42.</p> <p>43.</p> <p>44.</p> <p>45.</p> <p>46.</p> <p>47.</p> <p>48.</p> <p>49.</p> <p>50.</p> <p>51.</p> <p>52.</p> <p>53.</p> <p>54.</p> <p>55.</p> <p>56.</p> <p>57.</p> <p>58.</p> <p>59.</p> <p>60.</p> <p>61.</p> <p>62.</p> <p>63.</p> <p>64.</p> <p>65.</p> <p>66.</p> <p>67.</p> <p>68.</p> <p>69.</p> <p>70.</p> <p>71.</p> <p>72.</p> <p>73.</p> <p>74.</p> <p>75.</p> <p>76.</p> <p>77.</p> <p>78.</p> <p>79.</p> <p>80.</p> <p>81.</p> <p>82.</p> <p>83.</p> <p>84.</p> <p>85.</p> <p>86.</p> <p>87.</p> <p>88.</p> <p>89.</p> <p>90.</p> <p>91.</p> <p>92.</p> <p>93.</p> <p>94.</p> <p>95.</p> <p>96.</p> <p>97.</p> <p>98.</p> <p>99.</p> <p>100.</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>	
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	<ol style="list-style-type: none"> 1. 2. Python 3. <p>4</p> <p>Python</p> <ol style="list-style-type: none"> 5. NLP <ol style="list-style-type: none"> 1. 2. Python <p>TensorFlow</p> <ol style="list-style-type: none"> 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

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	<ol style="list-style-type: none"> 1. TensorFlow Keras 2. 3. 	<ol style="list-style-type: none"> 1. 2. Keras 3. TensorBoard 4. CNN -CIFAR10 5. CNN - 6. VGG - 		<p>40%+ 60%</p>	64

	1. 2.	7. YOLOV3-VOC		
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	<p>1. AI</p> <p>AI</p> <p>1.</p> <p>1.</p>	<p>2. AI</p> <p>3. AI</p> <p>2.</p> <p>2.</p>	<p>1. AI</p> <p>2.AI</p> <p>3.AI</p> <p>4.AI</p> <p>5.AI</p> <p>6. AI</p>	<p>IT</p> <p>120</p> <p>1 30%</p> <p>2 40%</p> <p>3 30%</p>
	<p>1.</p> <p>2. AI</p> <p>3. AI</p> <p>1.</p> <p>AI</p> <p>1.</p>	<p>2. AI</p> <p>3. AI</p> <p>AI</p> <p>2. AI</p> <p>3.</p> <p>2.</p>	<p>1.</p> <p>2.</p> <p>3.</p> <p>AI</p> <p>4. AI</p> <p>5.</p>	<p>IT</p> <p>480</p>

	<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

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				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		
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				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			
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					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					

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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		
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	18	42	474	316	790	28.2%	40%	
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	8	8	80	80	160	5.7%	50.0%	
	5	13	107	87	194	6.9%	44.8%	
	48	151	1111	1691	2802	100%	60.3%	
790		28.2%						
354		12.6%						
1691		60.3%						

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	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