



AI Jobs Analysis

"Know more about your career"

Supervised by
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Team Members

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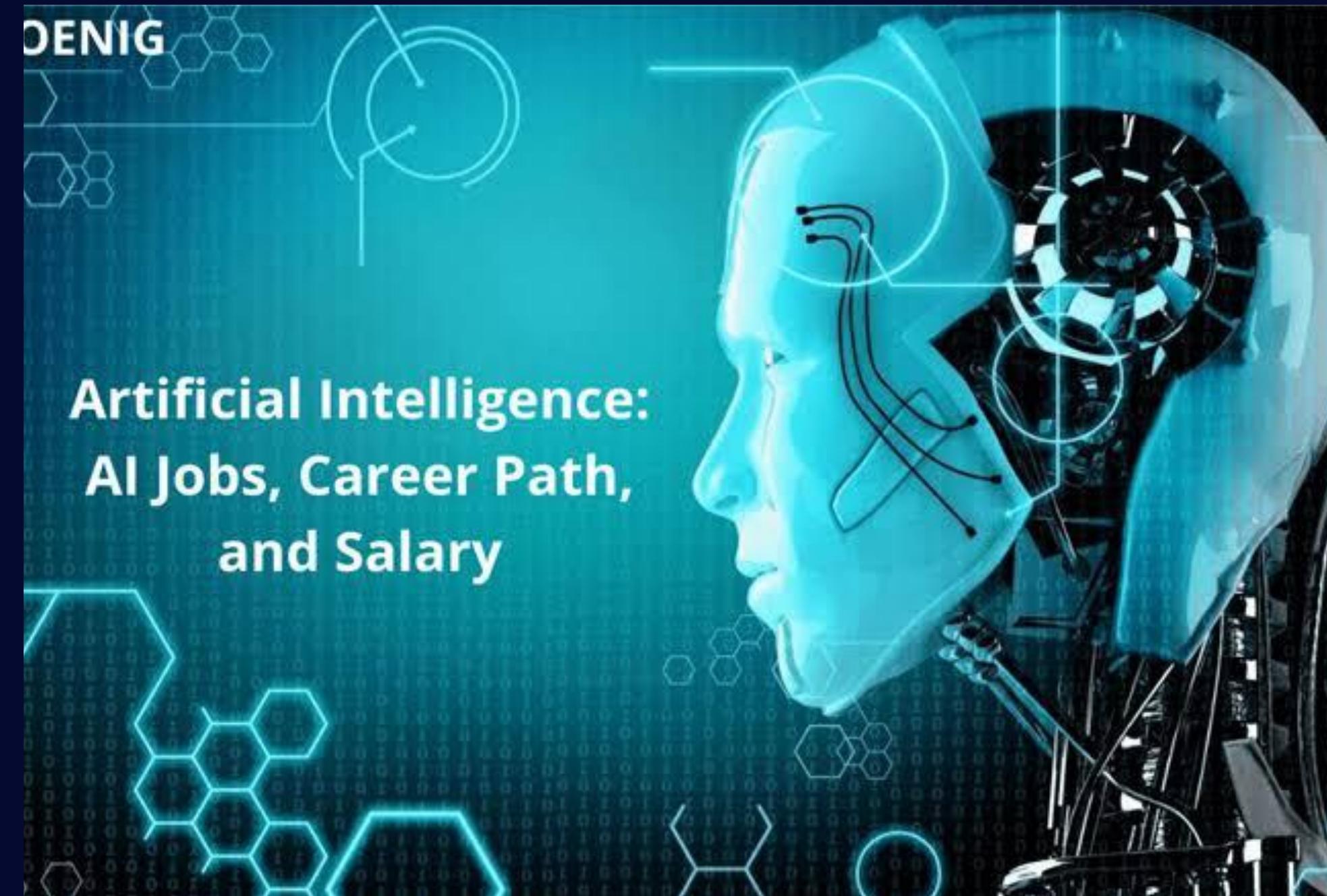
Overview

Our aim in this project is helping everyone who interest in AI career to know more about jobs in this field
(Roles - Salaries - Skills - Education - Experience - Employment Type - Countries - Companies Size)

Data Resource: Kaggle

Data Size: 30K rows , 19 columns

Data Type: CSV File



A1	job_id	job_title	salary_usd	salary_currency	experience_level	employment_type	company_location	company_size	employee_residence	remote_ratio	required_skills	education_requir							
1	AI00001	AI Research Scientist	90376	USD	SE	CT	China	M	China	50	"Tableau, PyTorch, Kubernetes, Linux, NLP"	Bachelor	9	Automotive	10/18/2024	11/7/2024	1076	5.9	Smart Analytics
2	AI00002	AI Software Engineer	61895	USD	EN	CT	Canada	M	Ireland	100	"Deep Learning, AWS, Mathematics, Python, Docker"	Master	1	Media	11/20/2024	1/11/2025	1268	5.2	TechCorp Inc
3	AI00003	AI Specialist	152626	USD	MI	FL	Switzerland	L	South Korea	0	"Kubernetes, Deep Learning, Java, Hadoop, NLP"	Associate	2	Education	3/18/2025	4/7/2025	1974	9.4	Autonomous Tech
4	AI00004	NLP Engineer	80215	USD	SE	FL	India	M	India	50	"Scala, SQL, Linux, Python"	PhD	7	Consulting	12/23/2024	2/24/2025	1345	8.6	Future Systems
5	AI00005	AI Consultant	54624	EUR	EN	PT	France	S	Singapore	100	"MLOps, Java, Tableau, Python"	Master	0	Media	4/15/2025	6/23/2025	1989	6.6	Advanced Robotics
6	AI00006	AI Architect	123574	EUR	SE	CT	Germany	M	Germany	50	"Data Visualization, R, SQL, Linux"	Associate	7	Healthcare	8/31/2024	10/4/2024	819	5.9	Neural Networks Co
7	AI00007	Principal Data Scientist	79670	GBP	MI	FL	United Kingdom	S	United Kingdom	0	"R, Docker, MLOps"	Associate	3	Gaming	12/29/2024	2/28/2025	1936	6.3	DataVision Ltd
8	AI00008	NLP Engineer	70640	EUR	EN	FL	France	L	France	0	"Python, SQL, Computer Vision, Java, Azure"	Master	0	Healthcare	6/7/2024	7/1/2024	1286	7.6	Cloud AI Solutions
9	AI00009	Data Analyst	160710	USD	SE	CT	Singapore	L	Singapore	0	"Hadoop, Git, Mathematics, Python"	PhD	7	Government	11/4/2024	11/24/2024	551	9.3	Quantum Computing Inc
10	AI00010	AI Software Engineer	102557	USD	SE	PT	Austria	M	Austria	0	"MLOps, GCP, Scala, Azure, Linux"	Master	5	Government	10/20/2024	11/6/2024	2340	5.8	Cloud AI Solutions
11	AI00011	Autonomous Systems Engineer	102322	USD	SE	PT	Sweden	M	Sweden	100	"MLOps, Python, SQL"	Associate	8	Telecommunications	1/29/2025	3/5/2025	1047	9.9	Smart Analytics
12	AI00012	AI Architect	115047	USD	EX	CT	South Korea	S	South Korea	0	"R, Data Visualization, Python, Azure"	Master	15	Manufacturing	7/16/2024	8/19/2024	513	6.8	TechCorp Inc
13	AI00013	AI Consultant	124355	EUR	SE	CT	France	M	France	100	"Tableau, Python, TensorFlow"	PhD	5	Automotive	12/29/2024	1/27/2025	760	5.2	Predictive Systems
14	AI00014	Autonomous Systems Engineer	68760	USD	EN	CT	Norway	S	Norway	0	"Scala, SQL, Statistics"	Master	0	Energy	2/11/2024	2/25/2024	1657	9.1	Cloud AI Solutions
15	AI00015	AI Research Scientist	150122	USD	SE	FT	Sweden	M	Sweden	100	"PyTorch, Python, Data Visualization, GCP"	Associate	6	Technology	10/2/2024	11/26/2024	1466	9.8	Advanced Robotics
16	AI00016	AI Product Manager	78846	GBP	EN	PT	United Kingdom	L	Israel	0	"Linux, Statistics, Deep Learning"	PhD	0	Consulting	9/28/2024	10/26/2024	2059	9.6	DataVision Ltd
17	AI00017	Principal Data Scientist	59823	USD	EN	FT	India	L	India	100	"Tableau, NLP, Spark"	Bachelor	1	Real Estate	2/6/2025	3/26/2025	1200	5.8	Predictive Systems
18	AI00018	Machine Learning Engineer	181139	EUR	EX	CT	France	L	France	100	"MLOps, PyTorch, Azure"	Associate	15	Real Estate	4/24/2024	6/3/2024	2142	8.7	AI Innovations
19	AI00019	Data Engineer	155300	USD	SE	CT	Singapore	M	Singapore	0	"Git, Hadoop, R, Python, Spark"	Associate	9	Finance	4/30/2024	5/29/2024	589	8.6	Algorithmic Solutions
20	AI00020	Research Scientist	93851	EUR	MI	PT	Netherlands	L	Germany	100	"Java, Scala, NLP, Docker, Computer Vision"	PhD	4	Transportation	5/1/2024	7/2/2024	1809	6.7	AI Innovations
21	AI00021	Data Engineer	134197	USD	MI	FT	Norway	M	France	0	"Deep Learning, AWS, Azure"	Bachelor	3	Telecommunications	6/21/2024	8/28/2024	969	9.6	AI Innovations
22	AI00022	Autonomous Systems Engineer	102550	USD	MI	PT	United States	M	United States	0	"Tableau, Spark, NLP, TensorFlow, PyTorch"	Bachelor	2	Automotive	4/23/2024	6/23/2024	625	10	Cognitive Corp
23	AI00023	ML Ops Engineer	99382	EUR	SE	CT	Germany	S	Germany	0	"Hadoop, Git, Tableau"	PhD	7	Automotive	3/13/2025	5/11/2025	1629	6.9	Quantum Computing Inc
24	AI00024	AI Product Manager	52167	USD	MI	FT	Austria	M	Ireland	100	"Git, Hadoop, Docker"	Master	4	Telecommunications	6/7/2024	6/24/2024	2298	9.3	Cloud AI Solutions
25	AI00025	ML Ops Engineer	53923	USD	MI	FT	China	S	China	0	"AWS, Azure, Git, SQL, Computer Vision"	Bachelor	2	Healthcare	10/27/2024	11/18/2024	1006	7.4	AI Innovations
26	AI00026	Robotics Engineer	109779	USD	SE	PT	Israel	L	Israel	100	"Linux, Git, Tableau, Kubernetes, Data Visualization"	PhD	6	Government	8/1/2024	10/2/2024	1146	8.8	DataVision Ltd
27	AI00027	ML Ops Engineer	80979	USD	MI	CT	Australia	S	India	50	"Hadoop, Linux, Git, Scala"	Master	2	Media	11/18/2024	1/18/2025	2109	7.7	TechCorp Inc
28	AI00028	Data Analyst	52997	USD	MI	PT	Austria	M	Singapore	0	"Mathematics, Kubernetes, TensorFlow, Tableau, PyTorch"	PhD	2	Government	1/10/2025	2/20/2025	2101	8.6	Predictive Systems
29	AI00029	Head of AI	42819	USD	EN	CT	Ireland	M	Ireland	50	"Python, Scala, NLP, Mathematics, Git"	PhD	0	Healthcare	10/8/2024	11/20/2024	2187	8.6	Cognitive Computing
30	AI00030	ML Ops Engineer	82083	USD	MI	CT	Israel	L	Israel	100	"Azure, Python, Computer Vision, Kubernetes, TensorFlow"	Master	2	Retail	1/18/2024	2/25/2024	1212	6.3	Future Systems
31	AI00031	Head of AI	67488	EUR	EN	FT	Netherlands	M	Netherlands	100	"Deep Learning, GCP, AWS, Linux, Tableau"	Master	1	Retail	5/16/2024	7/26/2024	887	6	Advanced Robotics

Excel

“The first step for every data analyst”



Phase 1: Data Preprocessing

In this phase prepared the data in

next steps:

- 1) Separated text data into columns
- 2) Dropped unnecessary columns
- 3) Removed Duplicates
- 4) Changed columns names
- 5) Replaced values in columns
- 6) Divided data into tables
- 7) Made data modeling between tables

	A	B	C	D	E	F	G	H
1	company_id	employee_id	job_id	salary_usd	remote_ratio	education_required	years_experience	industry
2	Cid1	Eid1	Jid1	90376	Hybrid	Bachelor		9 Automotive
3	Cid305	Eid2	Jid1	61122	Hybrid	Associate		0 Manufacturing
4	Cid312	Eid1	Jid11	122069	Remote	PhD		6 Consulting
5	Cid235	Eid188	Jid11	168619	Remote	Bachelor		18 Automotive
6	Cid2	Eid2	Jid2	61895	Remote	Master		1 Media
7	Cid1	Eid188	Jid2	128595	Hybrid	Master		15 Telecommunications
8	Cid127	Eid188	Jid2	148214	Hybrid	Associate		19 Telecommunications
9	Cid1	Eid178	Jid13	91090	Remote	Associate		9 Telecommunications
10	Cid38	Eid36	Jid3	41430	Hybrid	Bachelor		1 Healthcare
11	Cid3	Eid3	Jid3	152626	On-Site	Associate		2 Education
12	Cid115	Eid178	Jid5	100729	Hybrid	PhD		6 Energy
13	Cid144	Eid36	Jid4	53707	Hybrid	Master		0 Healthcare
14	Cid28	Eid2	Jid16	42819	Hybrid	PhD		0 Healthcare
15	Cid122	Eid2	Jid18	47999	On-Site	PhD		0 Finance
16	Cid461	Eid2	Jid18	99041	Hybrid	Bachelor		1 Consulting
17	Cid145	Eid3	Jid7	50915	Remote	Associate		2 Retail
18	Cid185	Eid2	Jid8	48892	Remote	Bachelor		0 Consulting
19	Cid1	Eid36	Jid8	43605	On-Site	PhD		0 Gaming
20	Cid144	Eid188	Jid10	128912	Remote	Master		18 Government
21	Cid307	Eid188	Jid12	182747	Remote	Bachelor		15 Gaming
22	Cid38	Eid36	Jid14	46335	Remote	Master		1 Transportation
23	Cid322	Eid188	Jid15	91260	Hybrid	Bachelor		17 Telecommunications
24	Cid412	Eid188	Jid10	100620	Remote	Bachelor		13 Education
25	Cid4	Eid4	Jid4	80215	Hybrid	PhD		7 Consulting
26	Cid295	Eid4	Jid8	115634	Hybrid	Master		9 Retail
27	Cid436	Eid4	Jid16	137934	Hybrid	Bachelor		9 Telecommunications
28	Cid453	Eid4	Jid1	94446	On-Site	Master		9 Manufacturing
29	Cid5	Eid5	Jid5	54624	Remote	Master		0 Media
30	Cid315	Eid5	Jid4	70207	Hybrid	PhD		1 Healthcare
31	Cid6	Eid6	Jid6	123574	Hybrid	Associate		7 Healthcare

Fact Table

A	B	C	D
employee_id	experience_level	employment_type	employee_residence
Eid1	Senior	Contract	China
Eid2	Entry	Contract	Ireland
Eid3	Mid	Freelance	South Korea
Eid4	Senior	Freelance	India
Eid5	Entry	Part-Time	Singapore
Eid6	Senior	Contract	Germany
Eid7	Mid	Freelance	United Kingdom
Eid8	Entry	Freelance	France
Eid9	Senior	Contract	Singapore
Eid10	Senior	Part-Time	Austria
Eid11	Senior	Part-Time	Sweden
Eid12	Executive	Contract	South Korea
Eid13	Senior	Contract	France
Eid14	Entry	Contract	Norway
Eid15	Senior	Full-Time	Sweden
Eid16	Entry	Part-Time	Israel
Eid17	Entry	Full-Time	India
Eid18	Executive	Contract	France
Eid19	Mid	Part-Time	Germany
Eid20	Mid	Full-Time	France
Eid21	Mid	Part-Time	United States
Eid22	Mid	Full-Time	Ireland
Eid23	Mid	Full-Time	China
Eid24	Senior	Part-Time	Israel
Eid25	Mid	Contract	India
Eid26	Mid	Part-Time	Singapore
Eid27	Mid	Contract	Israel
Eid28	Entry	Full-Time	Netherlands
Eid29	Entry	Full-Time	Denmark
Eid30	Senior	Full-Time	Switzerland

Employee Table

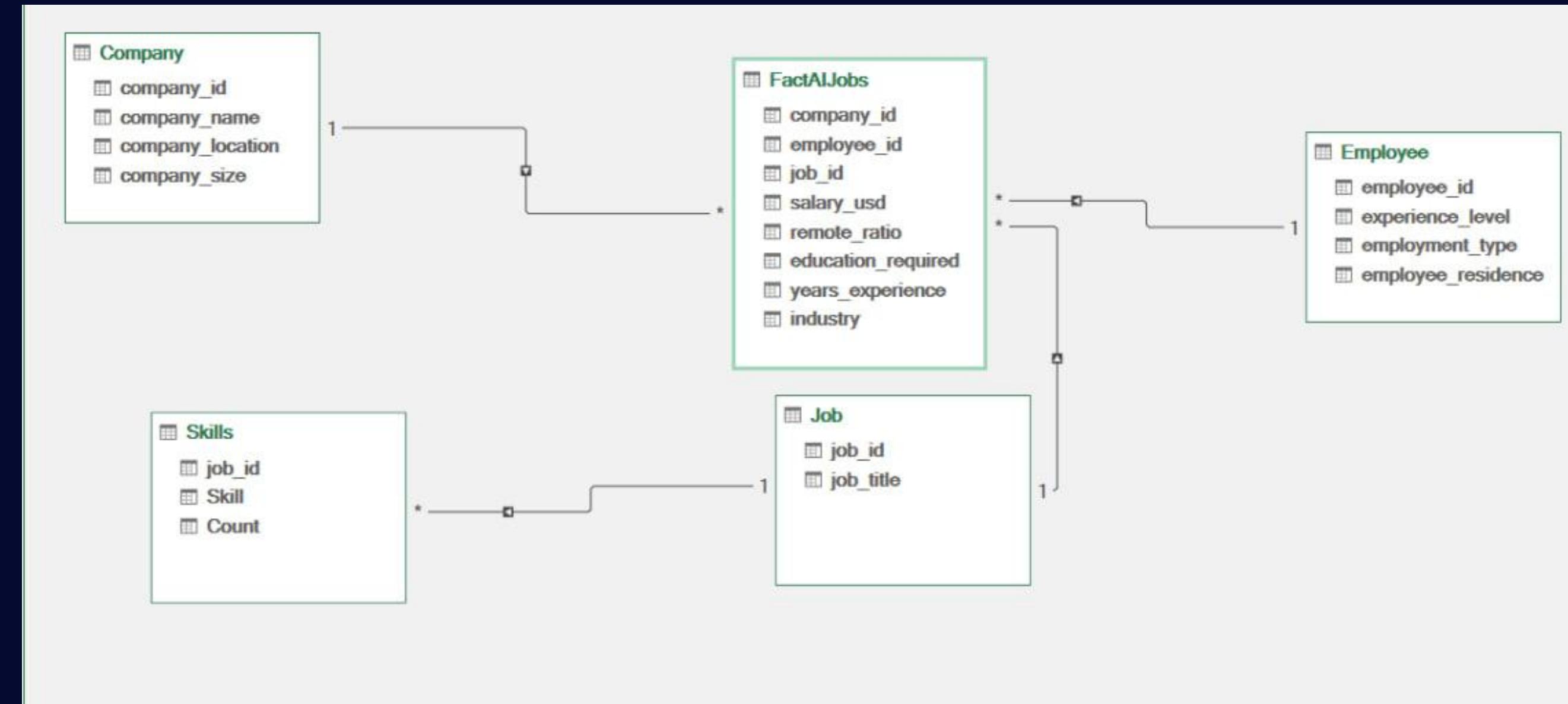
A	B	C	D	E	F
job_id	Skill	Count			
Jid18	Python	469			
Jid19	Python	465			
Jid17	Python	465			
Jid9	Python	460			
Jid12	Python	459			
Jid6	Python	458			
Jid7	Python	457			
Jid1	Python	455			
Jid20	Python	455			
Jid14	Python	454			
Jid16	Python	452			
Jid15	Python	451			
Jid10	Python	451			
Jid4	Python	449			
Jid11	Python	442			
Jid8	Python	439			
Jid2	Python	433			
Jid3	Python	433			
Jid13	Python	427			
Jid11	SQL	378			
Jid5	Python	375			
Jid6	SQL	367			
Jid9	SQL	363			
Jid13	SQL	360			
Jid4	SQL	357			
Jid17	SQL	351			
Jid14	SQL	349			
Jid7	SQL	349			
Jid12	SQL	348			
Jid20	SQL	345			

Skills Table

A	B	C	D
company_id	company_name	company_location	company_size
Cid1	Smart Analytics	China	Medium
Cid2	TechCorp Inc	Canada	Medium
Cid3	Autonomous Tech	Switzerland	Large
Cid4	Future Systems	India	Medium
Cid5	Advanced Robotics	France	Small
Cid6	Neural Networks Co	Germany	Medium
Cid7	DataVision Ltd	United Kingdom	Small
Cid8	Cloud AI Solutions	France	Large
Cid9	Quantum Computing Inc	Singapore	Large
Cid10	Cloud AI Solutions	Austria	Medium
Cid11	Smart Analytics	Sweden	Medium
Cid12	TechCorp Inc	South Korea	Small
Cid13	Predictive Systems	France	Medium
Cid14	Cloud AI Solutions	Norway	Small
Cid15	Advanced Robotics	Sweden	Medium
Cid16	DataVision Ltd	United Kingdom	Large
Cid17	Predictive Systems	India	Large
Cid18	AI Innovations	France	Large
Cid19	Algorithmic Solutions	Singapore	Medium
Cid20	AI Innovations	Netherlands	Large
Cid21	AI Innovations	Norway	Medium
Cid22	Cognitive Computing	United States	Medium
Cid23	Quantum Computing Inc	Germany	Small
Cid24	AI Innovations	China	Small
Cid25	DataVision Ltd	Israel	Large
Cid26	TechCorp Inc	Australia	Small
Cid27	Predictive Systems	Austria	Medium
Cid28	Cognitive Computing	Ireland	Medium
Cid29	Future Systems	Israel	Large
Cid30	Advanced Robotics	Netherlands	Medium

Company Table

A	B	C
1	job_id	job_title
2	Jid1	AI Research Scientist
3	Jid2	AI Software Engineer
4	Jid3	AI Specialist
5	Jid4	NLP Engineer
6	Jid5	AI Consultant
7	Jid6	AI Architect
8	Jid7	Principal Data Scientist
9	Jid8	Data Analyst
10	Jid9	Autonomous Systems Engineer
11	Jid10	AI Product Manager
12	Jid11	Machine Learning Engineer
13	Jid12	Data Engineer
14	Jid13	Research Scientist
15	Jid14	ML Ops Engineer
16	Jid15	Robotics Engineer
17	Jid16	Head of AI
18	Jid17	Deep Learning Engineer
19	Jid18	Data Scientist
20	Jid19	Machine Learning Researcher
21	Jid20	Computer Vision Engineer
22		
23		
24		



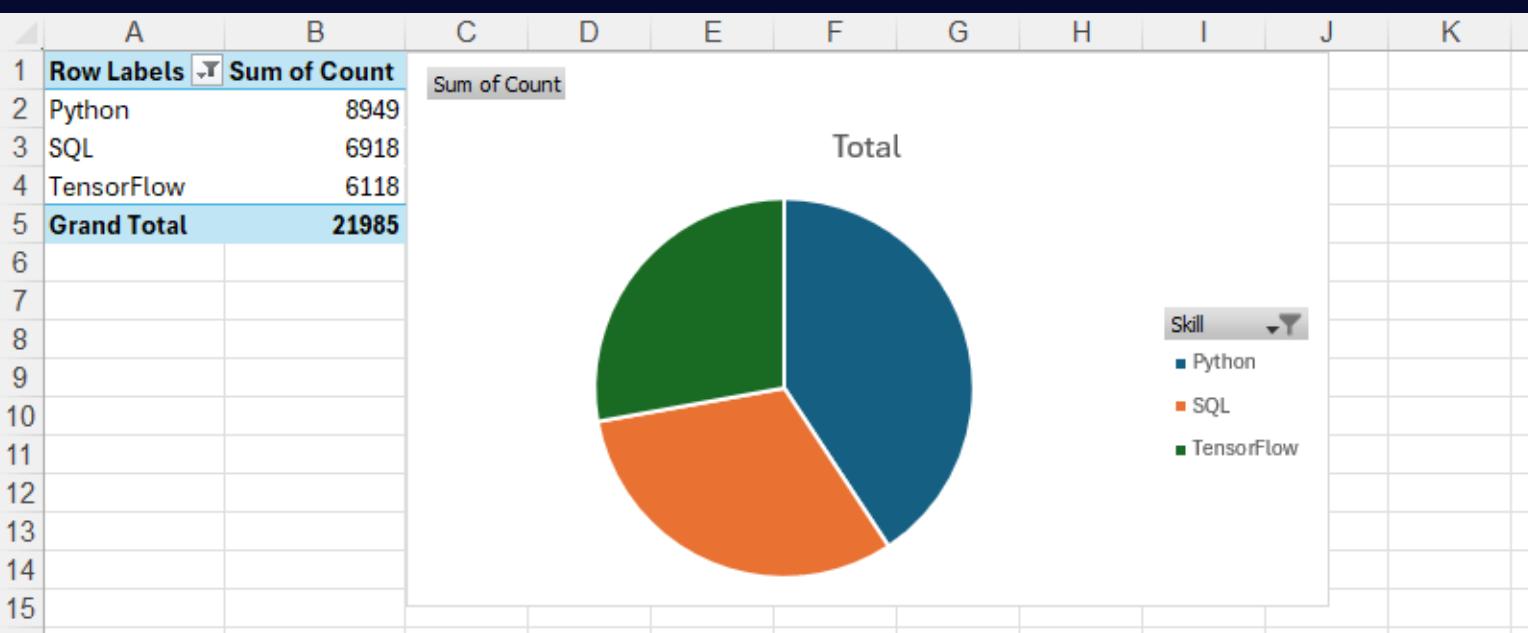
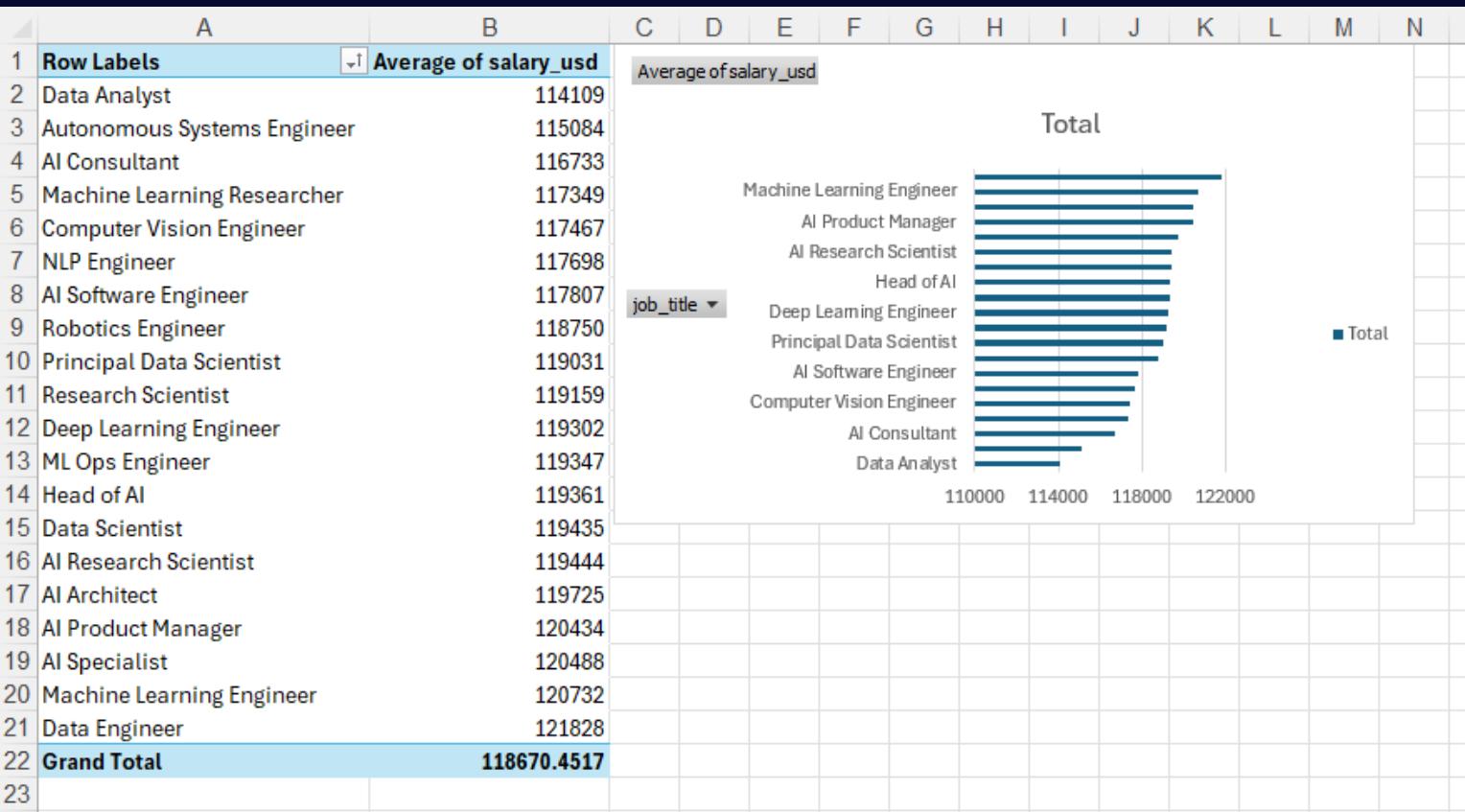
Job Table

ERD Data Modeling

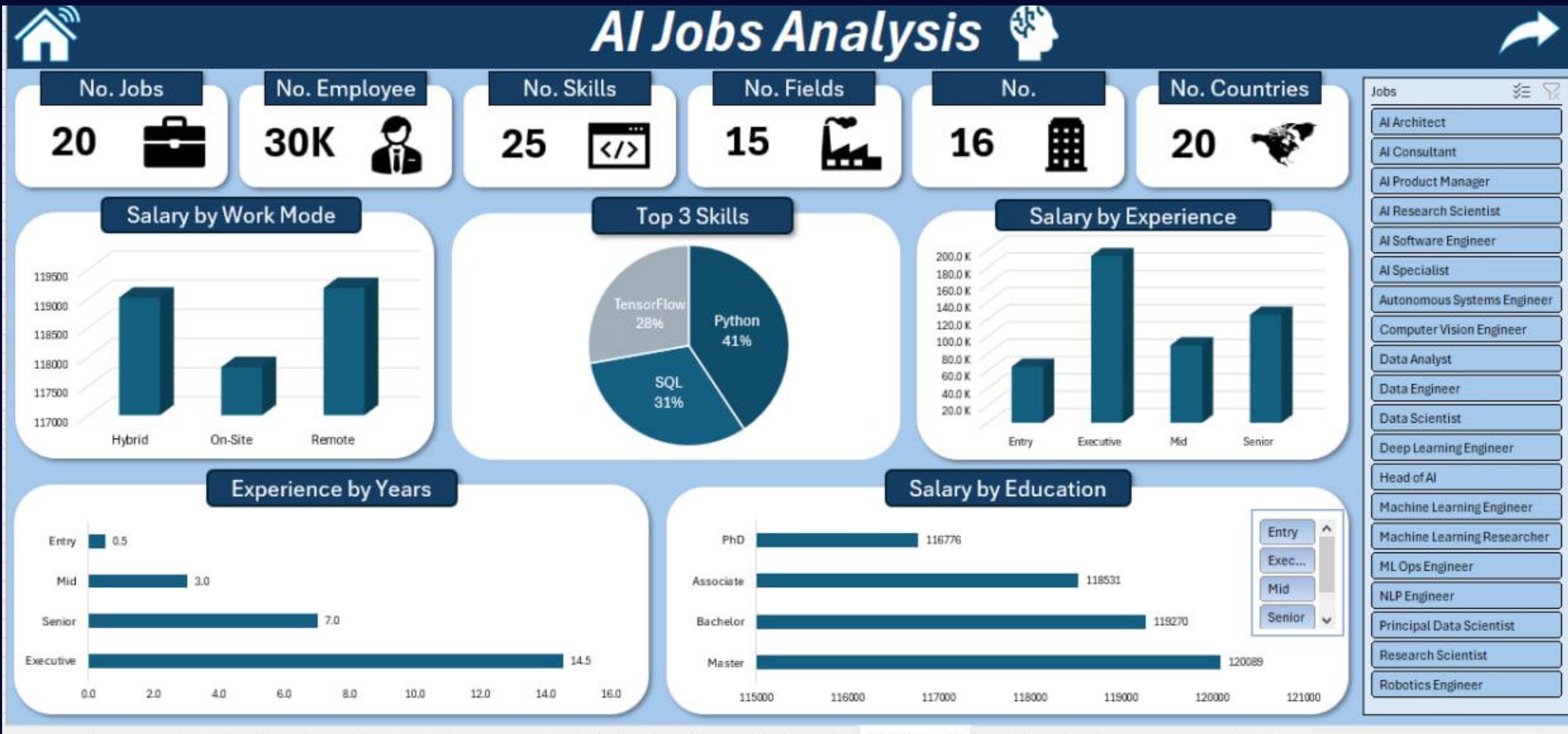
Phase 2: Data Analysis

In this phase we tried to answer the following questions using pivot tables:

- 1) What is the average salary of each role?
- 2) What is the top 3 skills needed ?
- 3) What is the salary by (work mode - education - experience - country) ?
- 4) What is the experience level by year ?
- 5) What is the percentage of each employment type ?
- 6) What is the percentage of companies size ?



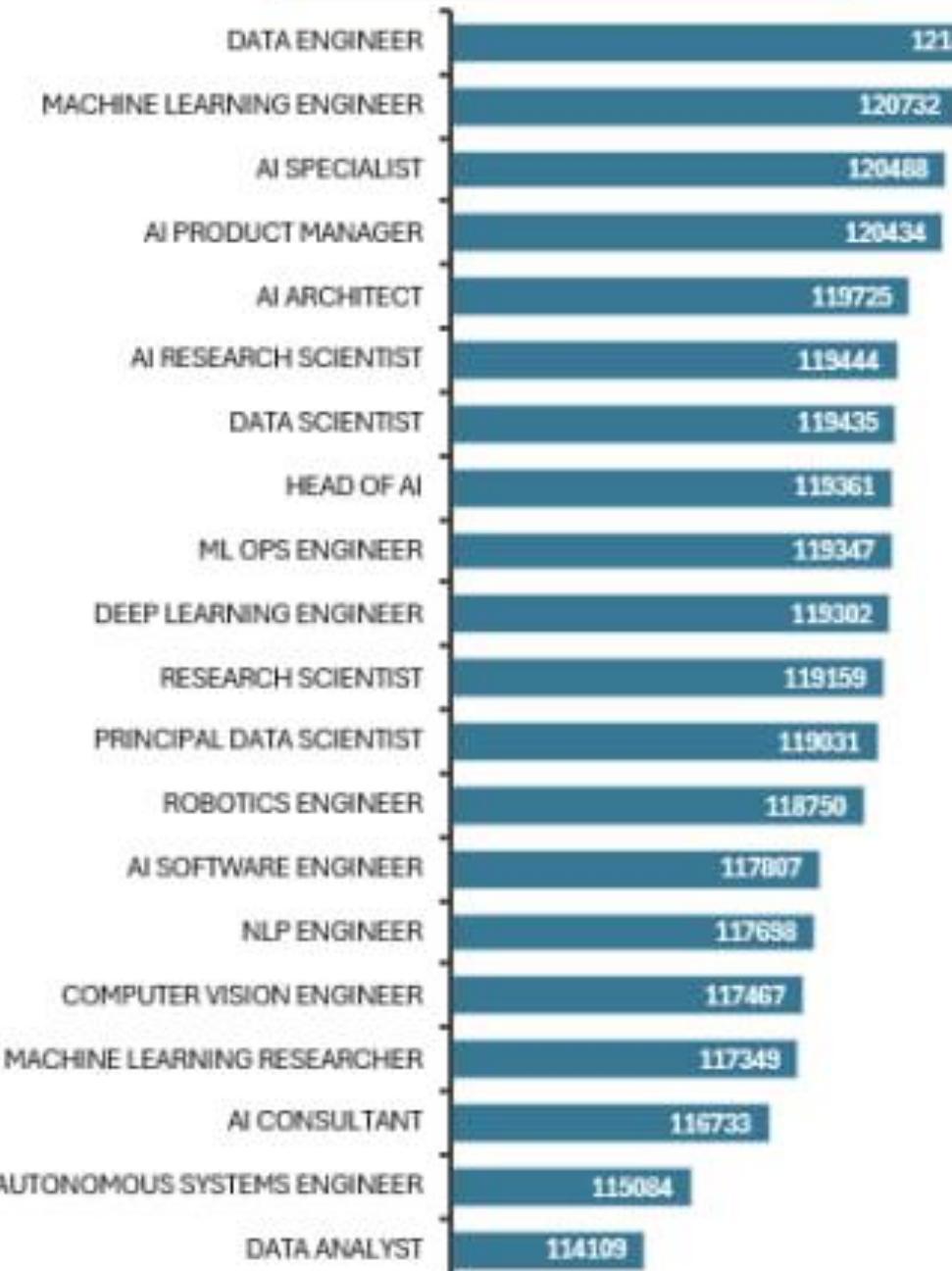
Phase 3: Dashboard



AI Jobs Analysis

Automotive	Consulting	Education	Energy	Finance
Gaming	Government	Healthcare	Manufacturing	Media
Real Estate	Retail	Technology	Telecommunications	Transportation

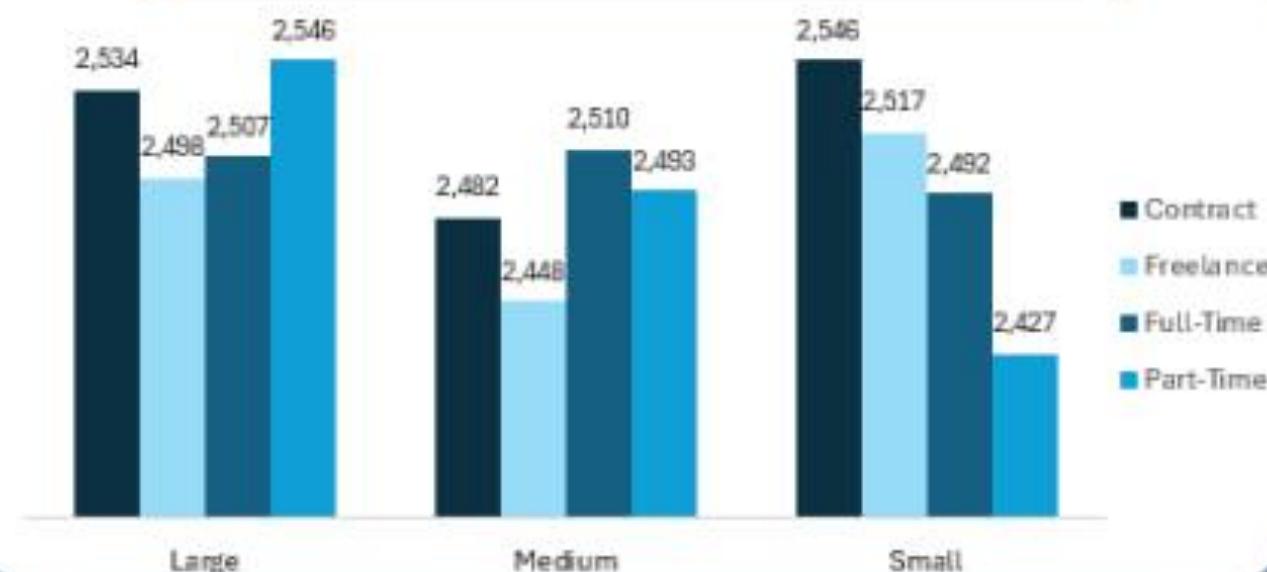
Average Salary by Job



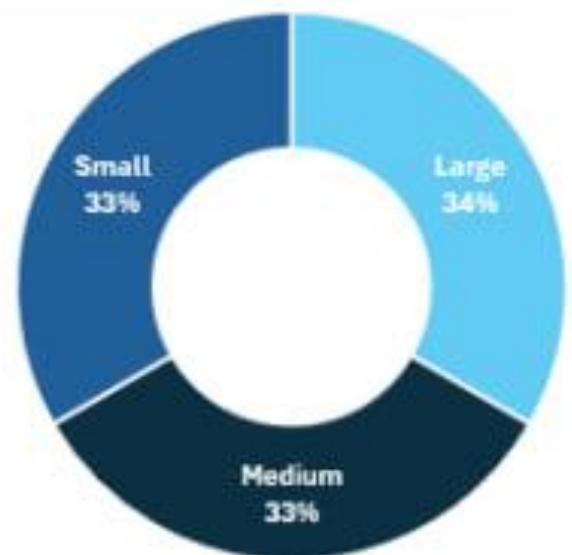
Employment Type



Employment Type by Company Size



Company Size



Average Salary by Country



© Australian Bureau of Statistics, Geoscience, Microsoft, Nasaids, OpenStreetMap, Overlays Map Foundation, TomTom, Zerion

MySQL

“Management of your data”



Phase 1: Data Preprocessing

SQL File 5* SQL File 6* SQL File 9* SQL File 10* Revision SQL* SQL File 8* ai_job_dataset1 x

1 • SELECT * FROM project_sql.ai_job_dataset1;

Result Grid | Filter Rows: [] Export: [] Wrap Cell Content: []

job_id	job_title	salary_usd	experience_level	employment_type	company_location	company_name
AI00001	AI Research Scientist	90376	SE	CT	China	M
AI00002	AI Software Engineer	61895	EN	CT	Canada	M
AI00003	AI Specialist	152626	MI	FL	Switzerland	L
AI00004	NLP Engineer	80215	SE	FL	India	M
AI00005	AI Consultant	54624	EN	PT	France	S
AI00006	AI Architect	123574	SE	CT	Germany	M
AI00007	Principal Data Scientist	79670	MI	FL	United Kingdom	S
AI00008	NLP Engineer	70640	EN	FL	France	L

Fact Table

File 5* SQL File 6* SQL File 9* SQL File 10* Revision SQL* SQL File 8* fact_job x

1 • SELECT * FROM project_sql.fact_job;

Result Grid | Filter Rows: [] Export: [] Wrap Cell Content: []

company_id	employee_id	job_id	salary	remote_ratio	education_required	years_experience	industry
1	63	19	50180	Remote	Bachelor	1	Gaming
1	63	8	43605	On-Site	PhD	0	Gaming
1	1	1	90376	Hybrid	Bachelor	9	Automotive
2	11	7	82895	Remote	Master	3	Real Estate
2	34	9	79810	Remote	Associate	3	Real Estate
2	3	2	61895	Remote	Master	1	Media
3	113	4	126242	On-Site	Master	0	Media
3	116	9	158932	Hybrid	Associate	2	Education

File 5* SQL File 6* SQL File 9* SQL File 10* Revision SQL* SQL File 8* Re

SET experience_level =
CASE experience_level
WHEN 'EN' THEN 'Entry-level'
WHEN 'MI' THEN 'Mid-level'
WHEN 'SE' THEN 'Senior'
WHEN 'EX' THEN 'Executive'
END;

• UPDATE Employee
SET employment_type =
CASE employment_type
WHEN 'FT' THEN 'Full-time'
WHEN 'PT' THEN 'Part-time'
WHEN 'CT' THEN 'Contract'
WHEN 'FL' THEN 'Freelance'
END;

Data before processing

File 5* SQL File 6* SQL File 9* SQL File 10* Revision SQL*

1 • SELECT * FROM project_sql.employee;

Result Grid | Filter Rows: | Edit: | Export: |

	Employee_id	employee_residence	employment_type	experience_level
▶	1	China	Contract	Senior
2	France	Part-time	Executive	
3	Ireland	Contract	Entry-level	
4	India	Contract	Executive	
5	South Korea	Freelance	Mid-level	
6	India	Freelance	Senior	
7	Switzerland	Contract	Executive	
8	Singapore	Part-time	Entry-level	
9	Denmark	Contract	Entry-level	

employee 1 ×

Employee Table

File 5* SQL File 6* SQL File 9* SQL File 10*

1 • SELECT * FROM project_sql.job;

Result Grid | Filter Rows: | Edit: | Export: |

	job_id	job_title
▶	1	AI Research Scientist
2	AI Software Engineer	
3	AI Specialist	
4	NLP Engineer	
5	AI Consultant	
6	AI Architect	
7	Principal Data Scientist	
8	Data Analyst	
9	Autonomous Systems Engineer	

job 1 ×

Job Table

SQL File 5* SQL File 6* SQL File 9* SQL File 10* Revision SQL*

1 • SELECT * FROM project_sql.company;

Result Grid | Filter Rows: | Edit: | Export: |

	company_id	company_name	company_location	company_size
▶	1	Smart Analytics	China	Medium
2	TechCorp Inc	Canada	Medium	
3	Autonomous Tech	Switzerland	Large	
4	Future Systems	India	Medium	
5	Advanced Robotics	France	Small	
6	Neural Networks Co	Germany	Medium	
7	DataVision Ltd	United Kingdom	Small	
8	Cloud AI Solutions	France	Large	
9	Quantum Computing Inc	Singapore	Large	

company 1 ×

Company Table

File 5* SQL File 6* SQL File 9* SQL File 10* Revision SQL*

1 • SELECT * FROM project_sql.skills;

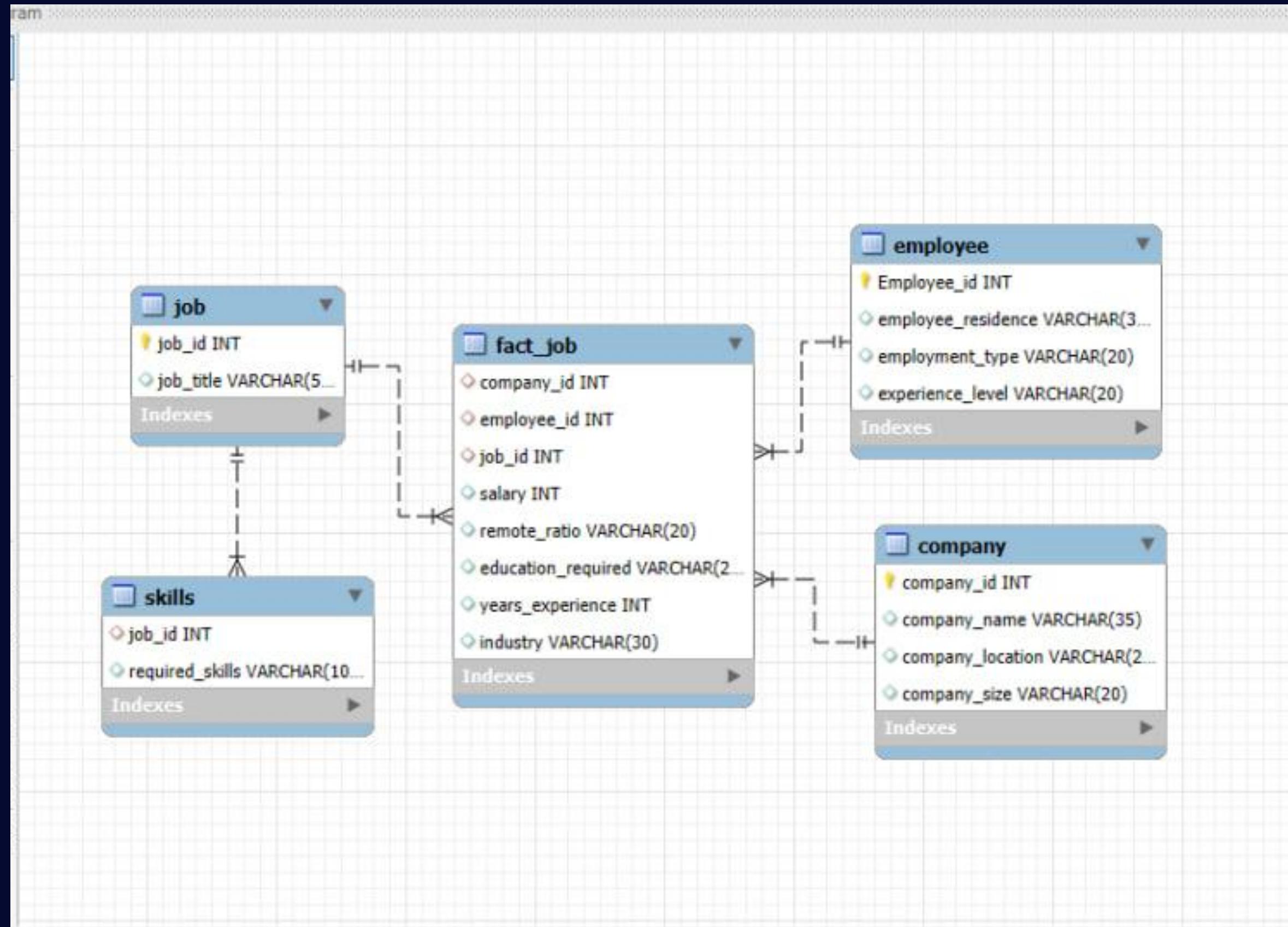
Result Grid | Filter Rows: | Edit: | Export: |

	job_id	required_skills
▶	1	Tableau, PyTorch, Kubernetes, Linux, NLP
2	Deep Learning, AWS, Mathematics, Python, Do...	
3	Kubernetes, Deep Learning, Java, Hadoop, NLP	
4	Scala, SQL, Linux, Python	
5	MLOps, Java, Tableau, Python	
6	Data Visualization, R, SQL, Linux	
7	R, Docker, MLOps	
8	Python, SQL, Computer Vision, Java, Azure	
9	Hadoop, Git, Mathematics, Python	

skills 1 ×

Skills Table

Phase 2: Data Modeling



Phase 3: Analysis

SQL File 5* SQL File 6* SQL File 9* SQL File 10* Revision SQL* SQL File 8*

```
160 -- 1-Top requested technical AI skills across all roles
161 • WITH skill_list AS(
162     SELECT
163         job_id,
164         TRIM(substring_index(required_skills, ',', 1)) AS skill_1,
165         TRIM(substring_index(substring_index(required_skills, ',', 2), ',', -1)) AS skill_2
166     FROM fact_job f
167     GROUP BY job_id, skill_1, skill_2
168     ORDER BY skill_1, skill_2
169 )
170
171     SELECT
172         skill,
173         COUNT(job_id) AS job_postings_with_skill,
174         COUNT(DISTINCT job_id) / COUNT(job_id) * 100 AS percent_of_jobs
175     FROM (
176         SELECT
177             skill,
178             job_id
179         FROM skill_list
180     ) t
181     GROUP BY skill
182     ORDER BY percent_of_jobs DESC
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Result Grid | Filter Rows: | Export: | Wrap Cell Content: | Result 1 x

skill	job_postings_with_skill	percent_of_jobs
Python	8949	29.83
SQL	6918	23.06
TensorFlow	6118	20.39
Kubernetes	6087	20.29
PyTorch	5608	18.69
Scala	5542	18.47
Linux	5347	17.82
Git	5122	17.07
Java	5109	17.03

SQL File 5* SQL File 6* SQL File 9* SQL File 10* Revision SQL* SQL File 8*

```
192 -- 2- Average salary (USD) per role per country
193 • SELECT
194     c.company_location,
195     e.employment_type,
196     AVG(f.salary) AS Average_Salary
197     FROM fact_job f
198     JOIN dim_employee e ON f.employee_id = e.employee_id
199     JOIN dim_company c ON f.company_id = c.company_id
200
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222
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: | Result 2 x

company_location	employment_type	Average_Salary
China	Contract	70798.8650
Switzerland	Contract	168841.2243
France	Contract	113803.1470
Denmark	Contract	158063.1545
Japan	Contract	109958.4017
United Kingdom	Contract	123654.5831
Germany	Contract	123599.1940
Ireland	Contract	107085.8959
United States	Contract	144971.2880

SQL File 5* SQL File 6* SQL File 9* SQL File 10* Revision SQL* SQL File 8*

```
203 -- 3- average salary by experience level (entry, mid, senior)
204 • SELECT
205     j.job_title,
206     e.experience_level,
207     MIN(f.salary) AS Min_Salary,
208     ROUND(AVG(f.salary)) AS Average_Salary,
209     MAX(f.salary) AS Max_Salary
210
211
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216
217
218
219
220
221
222
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: | Result 3 x

job_title	experience_level	Min_Salary	Average_Salary	Max_Salary
AI Architect	Entry-level	18309	66055	129545
AI Architect	Mid-level	27705	89489	178905
AI Architect	Senior	36919	125149	247271
AI Architect	Executive	53596	196573	398084
AI Consultant	Entry-level	18965	63869	130984
AI Consultant	Mid-level	31567	90263	164719
AI Consultant	Senior	38307	125722	231028
AI Consultant	Executive	46727	187821	378502
AI Product Manager	Entry-level	16795	64213	122403

SQL File 5* SQL File 6* SQL File 9* SQL File 10* Revision SQL* SQL File 8*

```
217 -- 4- Salary range (min-max) by industry
218 • SELECT industry, MIN(salary) AS MinSalary, MAX(salary) AS MaxSalary
219     FROM fact_job
220     GROUP BY 1
221     ORDER BY 1;
222 -- 5- % of AI roles that are full-time vs part-time vs freelance
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: | Result 4 x

industry	MinSalary	MaxSalary
Automotive	18481	398084
Consulting	19776	378502
Education	18220	410273
Energy	20105	381575
Finance	18052	394510
Gaming	18247	403493
Government	19877	382222
Healthcare	20088	379418
Manufacturing	16621	364585

SQL File 5* SQL File 6* SQL File 9* SQL File 10* Revision SQL* SQL File 8* x

```

222    -- 5- % of AI roles that are full-time vs part-time vs freelance
223 •  SELECT
224      j.job_title AS job,
225      ROUND((SUM(CASE WHEN e.employment_type = 'Full-Time' THEN 1 ELSE 0 END) / COUNT(*))*100) AS full_time
226      ROUND((SUM(CASE WHEN e.employment_type = 'Part-Time' THEN 1 ELSE 0 END) / COUNT(*))*100) AS part_time
227      ROUND((SUM(CASE WHEN e.employment_type = 'Freelance' THEN 1 ELSE 0 END) / COUNT(*))*100) AS freelance
228      ROUND((SUM(CASE WHEN e.employment_type = 'Contract' THEN 1 ELSE 0 END) / COUNT(*))*100) AS contract

```

Result Grid | Filter Rows: Export: Wrap Cell Content: Result Grid Form Editor Read Only

job	full_time	part_time	freelance	contract
AI Architect	26.88	25.18	23.68	24.26
AI Consultant	24.42	24.42	24.91	26.25
AI Product Manager	26.81	24.82	25.08	23.29
AI Research Scientist	24.59	24.93	25.07	25.41
AI Software Engineer	25.17	24.77	25.23	24.83
AI Specialist	23.50	25.70	26.23	24.57
Autonomous Systems Engineer	25.65	24.15	23.63	26.57
Computer Vision Engineer	24.67	25.13	25.60	24.60
Data Analyst	24.98	25.39	24.31	25.32

Result 5 x

SQL File 5* SQL File 6* SQL File 9* SQL File 10* Revision SQL* SQL File 8* x

```

236    -- 6- % of remote/hybrid AI roles vs on-site roles
237 •  SELECT
238      j.job_title AS job,
239      ROUND((SUM(CASE WHEN f.remote_ratio = 'Remote' THEN 1 ELSE 0 END) / COUNT(*))*100,2) AS Remote
240      ROUND((SUM(CASE WHEN f.remote_ratio = 'Hybrid' THEN 1 ELSE 0 END) / COUNT(*))*100,2) AS Hybrid
241      ROUND((SUM(CASE WHEN f.remote_ratio = 'On-Site' THEN 1 ELSE 0 END) / COUNT(*))*100,2) AS On_Site

```

Result Grid | Filter Rows: Export: Wrap Cell Content: Result Grid Form Editor Read Only

job	Remote	Hybrid	On_Site
AI Architect	33.42	33.16	33.42
AI Consultant	34.51	31.40	34.09
AI Product Manager	33.31	35.10	31.59
AI Research Scientist	30.74	35.34	33.92
AI Software Engineer	35.47	33.75	30.78
AI Specialist	33.75	32.49	33.75
Autonomous Systems Engineer	33.16	36.10	30.74
Computer Vision Engineer	33.51	34.77	31.72
Data Analyst	33.96	34.29	31.75

Result 6 x

SQL File 5* SQL File 6* SQL File 9* SQL File 10* Revision SQL* SQL File 8* x

```

247    -- 7- Top 5 industries by volume of AI hiring per role
248 •  WITH RankedIndustries AS (
249     SELECT
250       f.job_id,
251       f.industry,
252       COUNT(CASE WHEN f.industry IS NOT NULL THEN 1 END) AS industry_count,

```

Result Grid | Filter Rows: Export: Wrap Cell Content: Result Grid Form Editor Read Only

job_title	Industry_1	Industry_2	Industry_3	Industry_4	Industry_5
AI Architect	Technology	Consulting	Manufacturing	Automotive	Finance
AI Consultant	Real Estate	Gaming	Automotive	Education	Media
AI Product Manager	Consulting	Technology	Finance	Government	Retail
AI Research Scientist	Media	Finance	Government	Retail	Consulting
AI Software Engineer	Real Estate	Gaming	Consulting	Media	Finance
AI Specialist	Automotive	Manufacturing	Education	Consulting	Media
Autonomous Systems Engineer	Energy	Consulting	Healthcare	Government	Finance
Computer Vision Engineer	Real Estate	Gaming	Healthcare	Media	Telecommunications
Data Analyst	Technology	Government	Gaming	Energy	Real Estate

Result 7 x

Python



Phase 1: Data Preprocessing

Raw Data Information

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JupyterLab Python 3 (ipykernel)

```
[2]: df = pd.read_csv('ai_job_dataset1.csv')
df.head()
```

	job_id	job_title	salary_usd	salary_currency	experience_level	employment_type	company_location	company_size	employee_residence	remote_ratio	required_skills
0	AI00001	AI Research Scientist	90376	USD	SE	CT	China	M	China	50	Tablet PyTc Kubernetes Linux, Deep Learn A
1	AI00002	AI Software Engineer	61895	USD	EN	CT	Canada	M	Ireland	100	Mathema Pytl Do
2	AI00003	AI Specialist	152626	USD	MI	FL	Switzerland	L	South Korea	0	Kubernetes Deep Learr Java, Hack
3	AI00004	NLP Engineer	80215	USD	SE	FL	India	M	India	50	Scala, ! Linux, Pyt
4	AI00005	AI Consultant	54624	EUR	EN	PT	France	S	Singapore	100	MLOps, J Table Pyt

jupyter DEPI_Project-2 Last Checkpoint: 3 hours ago

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Code Markdown

```
[3]: (30000, 19)
```

```
[4]: df.info()
```

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 30000 entries, 0 to 29999
Data columns (total 19 columns):
 #   Column           Non-Null Count  Dtype  
--- 
 0   job_id          30000 non-null   object 
 1   job_title        30000 non-null   object 
 2   salary_usd       30000 non-null   int64  
 3   salary_currency  30000 non-null   object 
 4   experience_level 30000 non-null   object 
 5   employment_type  30000 non-null   object 
 6   company_location 30000 non-null   object 
 7   company_size      30000 non-null   object 
 8   employee_residence 30000 non-null   object 
 9   remote_ratio     30000 non-null   int64  
 10  required_skills  30000 non-null   object 
 11  education_required 30000 non-null   object 
 12  years_experience 30000 non-null   int64  
 13  industry         30000 non-null   object 
 14  posting_date      30000 non-null   object 
 15  application_deadline 30000 non-null   object 
 16  job_description_length 30000 non-null   int64  
 17  benefits_score    30000 non-null   float64
 18  company_name      30000 non-null   object 
dtypes: float64(1), int64(4), object(14)
memory usage: 4.3+ MB
```

Data Cleaning

```
jupyter DEPI_Project-2 Last Checkpoint: 4 hours ago
File Edit View Run Kernel Settings Help
+ X C Markdown
memory usage: 4.3+ MB
Not Trusted
JupyterLab Python 3 (ipykernel)
[5]: numeric = df[['salary_usd', 'years_experience']]
[6]: numeric.corr()
[6]:


|                  | salary_usd | years_experience |
|------------------|------------|------------------|
| salary_usd       | 1.000000   | 0.740124         |
| years_experience | 0.740124   | 1.000000         |


[7]: df.drop(['salary_currency', 'posting_date', 'application_deadline', 'job_description_length', 'benefits_score'],
           axis=1, inplace=True)
[8]: df.head()
[8]:


|   | job_id  | job_title             | salary_usd | experience_level | employment_type | company_location | company_size | employee_residence | remote_ratio | required_skills                                 | education_r |
|---|---------|-----------------------|------------|------------------|-----------------|------------------|--------------|--------------------|--------------|-------------------------------------------------|-------------|
| 0 | AI00001 | AI Research Scientist | 90376      | SE               | CT              | China            | M            | China              | 50           | Tableau, PyTorch, Kubernetes, Linux, NLP        | 1           |
| 1 | AI00002 | AI Software Engineer  | 61895      | EN               | CT              | Canada           | M            | Ireland            | 100          | Deep Learning, AWS, Mathematics, Python, Docker | 0           |


```

Drop unnecessary columns

```
jupyter DEPI_Project-2 Last Checkpoint: 4 hours ago
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+ X C Markdown
Not Trusted
JupyterLab Python 3 (ipykernel)
Change Names
[9]: df['experience_level'] = df['experience_level'].replace(['EX', 'SE', 'MI', 'EN'],
               ['Executive', 'Senior', 'Mid-level', 'Entry-level'])
[10]: df['employment_type'] = df['employment_type'].replace(['CT', 'FT', 'PT', 'FL'],
                ['Contract', 'Full-time', 'Part-time', 'Freelance'])
[11]: df['company_size'] = df['company_size'].replace(['L', 'M', 'S'],
               ['Large', 'Medium', 'Small'])
[12]: df['remote_ratio'] = df['remote_ratio'].replace([0, 50, 100],
               ['On-Site', 'Hybrid', 'Remote'])
[13]: cols = ['experience_level', 'employment_type', 'company_size', 'remote_ratio']
for col in cols:
    print(df[col].value_counts())
experience_level
Executive    7603
Mid-level    7545
Senior      7482
Entry-level   7370
Name: count, dtype: int64
employment_type
Contract     7562
Full-time    7509
```

Rename columns

Data after cleaning

jupyter DEPI_Project-2 Last Checkpoint: 4 hours ago

File Edit View Run Kernel Settings Help

Not Trusted

JupyterLab Python 3 (ipykernel) JupyterLab Python 3 (ipykernel)

Name: count, dtype: int64

[14]: df.head()

	job_id	job_title	salary_usd	experience_level	employment_type	company_location	company_size	employee_residence	remote_ratio	required_skills	education_required	years_experience	industry	company_name
0	AI00001	AI Research Scientist	90376	Senior	Contract	China	Medium	China	Hybrid	Tableau, PyTorch, Kubernetes, Linux, NLP	Bachelor	9	Automotive	Smart Analytics
1	AI00002	AI Software Engineer	61895	Entry-level	Contract	Canada	Medium	Ireland	Remote	Deep Learning, AWS, Mathematics, Python, Docker	Master	1	Media	TechCorp Inc
2	AI00003	AI Specialist	152626	Mid-level	Freelance	Switzerland	Large	South Korea	On-Site	Kubernetes, Deep Learning, Java, Hadoop, NLP	Associate	2	Education	Autonomous Tech
3	AI00004	NLP Engineer	80215	Senior	Freelance	India	Medium	India	Hybrid	Scala, SQL, Linux, Python	PhD	7	Consulting	Future Systems
4	AI00005	AI Consultant	54624	Entry-level	Part-time	France	Small	Singapore	Remote	MLOps, Java, Tableau, Python	Master	0	Media	Advanced Robotics

Visualizatio

Top Required Technical AI Skills

Skill	Frequency
Python	8949
SQL	6918
TensorFlow	6118
Kubernetes	6087
PyTorch	5608
Scala	5542
Linux	5347
Git	5122
Java	5109
GCP	4902
Hadoop	4762
R	4657
Tableau	4654
Computer Vision	4560
Data Visualization	4544
Spark	4419
ML Ops	4309
Azure	4281
Deep Learning	4260
NLP	4223

Top 5 Skills per Job Title

AI Architect		AI Consultant		AI Product Manager		AI Research Scientist	
Skill	Frequency	Skill	Frequency	Skill	Frequency	Skill	Frequency
Python	456	Python	375	Python	451	Python	455
SQL	367	SQL	325	SQL	360	Kubernetes	334
Kubernetes	314	PyTorch	303	TensorFlow	311	SQL	324
TensorFlow	298	Kubernetes	276	Kubernetes	288	TensorFlow	293
Linux	290	TensorFlow	271	Linux	286	PyTorch	261
AI Software Engineer		AI Specialist		Autonomous Systems Engineer		Computer Vision Engineer	
Skill	Frequency	Skill	Frequency	Skill	Frequency	Skill	Frequency
Python	433	Python	433	Python	460	Python	455
SQL	312	SQL	336	SQL	363	SQL	345
TensorFlow	326	TensorFlow	326	Kubernetes	325	TensorFlow	317
Kubernetes	318	Kubernetes	306	TensorFlow	311	Scala	299
Scala	292	PyTorch	298	PyTorch	300	PyTorch	298
Data Analyst		Data Engineer		Data Scientist		Deep Learning Engineer	
Skill	Frequency	Skill	Frequency	Skill	Frequency	Skill	Frequency
Python	439	Python	459	Python	469	Python	465
SQL	342	SQL	348	SQL	368	SQL	361
TensorFlow	314	Kubernetes	330	Kubernetes	310	TensorFlow	309
Kubernetes	301	TensorFlow	319	TensorFlow	304	Linux	284
Linux	299	Scala	286	Scala	284	PyTorch	280
Head of AI		ML Ops Engineer		Machine Learning Engineer		Machine Learning Researcher	
Skill	Frequency	Skill	Frequency	Skill	Frequency	Skill	Frequency
Python	452	Python	454	Python	442	Python	465
SQL	342	SQL	349	SQL	378	SQL	355
TensorFlow	309	TensorFlow	300	Kubernetes	341	Kubernetes	315
Kubernetes	302	GE	278	TensorFlow	309	TensorFlow	311
Scala	279	PyTorch	260	Scala	308	PyTorch	276
NLP Engineer		Principal Data Scientist		Research Scientist		Robotics Engineer	
Skill	Frequency	Skill	Frequency	Skill	Frequency	Skill	Frequency
Python	449	Python	457	Python	427	Python	451
SQL	367	SQL	349	SQL	360	SQL	337
Kubernetes	327	Kubernetes	311	PyTorch	293	TensorFlow	305
TensorFlow	307	TensorFlow	301	Kubernetes	279	Kubernetes	302
PyTorch	280	Linux	290	TensorFlow	277	PyTorch	299

Average Salary (USD in K) per Role per Country										
	Australia	Austria	Canada	China	Denmark	Finland	France	Germany	India	Ireland
AI Architect	129.3K	93.7K	117.1K	74.1K	158.1K	100.4K	116.7K	117.3K	59.5K	103.0K
AI Consultant	115.6K	108.1K	113.2K	70.2K	157.1K	94.9K	121.1K	117.8K	59.9K	112.3K
AI Product Manager	123.8K	99.5K	120.1K	67.3K	188.2K	109.2K	122.8K	124.7K	64.4K	111.3K
AI Research Scientist	126.8K	97.7K	110.5K	68.8K	156.6K	98.1K	117.6K	127.4K	60.5K	99.0K
AI Software Engineer	117.2K	98.5K	128.3K	73.9K	156.7K	112.1K	113.9K	116.3K	67.5K	99.7K
AI Specialist	127.9K	97.5K	120.5K	76.8K	158.8K	95.9K	113.0K	127.5K	61.7K	118.5K
Autonomous Systems Engineer	119.5K	103.7K	110.3K	71.3K	151.9K	95.4K	112.7K	116.6K	61.0K	99.5K
Computer Vision Engineer	126.2K	98.8K	116.8K	67.3K	158.8K	101.9K	103.2K	122.1K	56.9K	107.1K
Data Analyst	107.8K	91.6K	110.3K	71.4K	173.8K	99.7K	107.2K	118.7K	61.9K	98.6K
Data Engineer	120.3K	104.2K	124.1K	73.6K	159.8K	116.1K	119.4K	125.1K	66.7K	110.1K
Data Scientist	129.1K	103.0K	110.5K	71.3K	152.6K	95.1K	117.6K	120.1K	69.9K	111.8K
Deep Learning Engineer	122.5K	104.4K	114.8K	65.3K	152.2K	92.7K	105.4K	120.2K	63.7K	112.6K
Head of AI	124.9K	103.0K	104.9K	77.4K	169.9K	101.0K	110.1K	122.6K	75.7K	92.8K
ML Ops Engineer	119.9K	103.7K	103.5K	73.5K	167.5K	106.5K	112.5K	112.5K	66.8K	113.2K
Machine Learning Engineer	119.7K	100.8K	111.4K	73.9K	173.7K	103.5K	118.2K	130.8K	61.3K	99.4K
Machine Learning Researcher	126.9K	97.7K	112.9K	68.1K	155.5K	98.1K	115.7K	134.0K	68.3K	95.4K
NLP Engineer	117.5K	92.5K	108.7K	73.6K	164.6K	100.8K	117.4K	113.5K	67.7K	98.8K
Principal Data Scientist	120.0K	111.0K	116.9K	64.2K	166.0K	101.9K	120.3K	120.9K	57.6K	105.9K
Research Scientist	123.4K	101.7K	106.6K	68.9K	158.6K	107.6K	109.4K	132.8K	77.5K	105.5K
Robotics Engineer	120.3K	110.1K	118.6K	69.4K	161.1K	112.7K	119.9K	125.4K	62.9K	109.2K

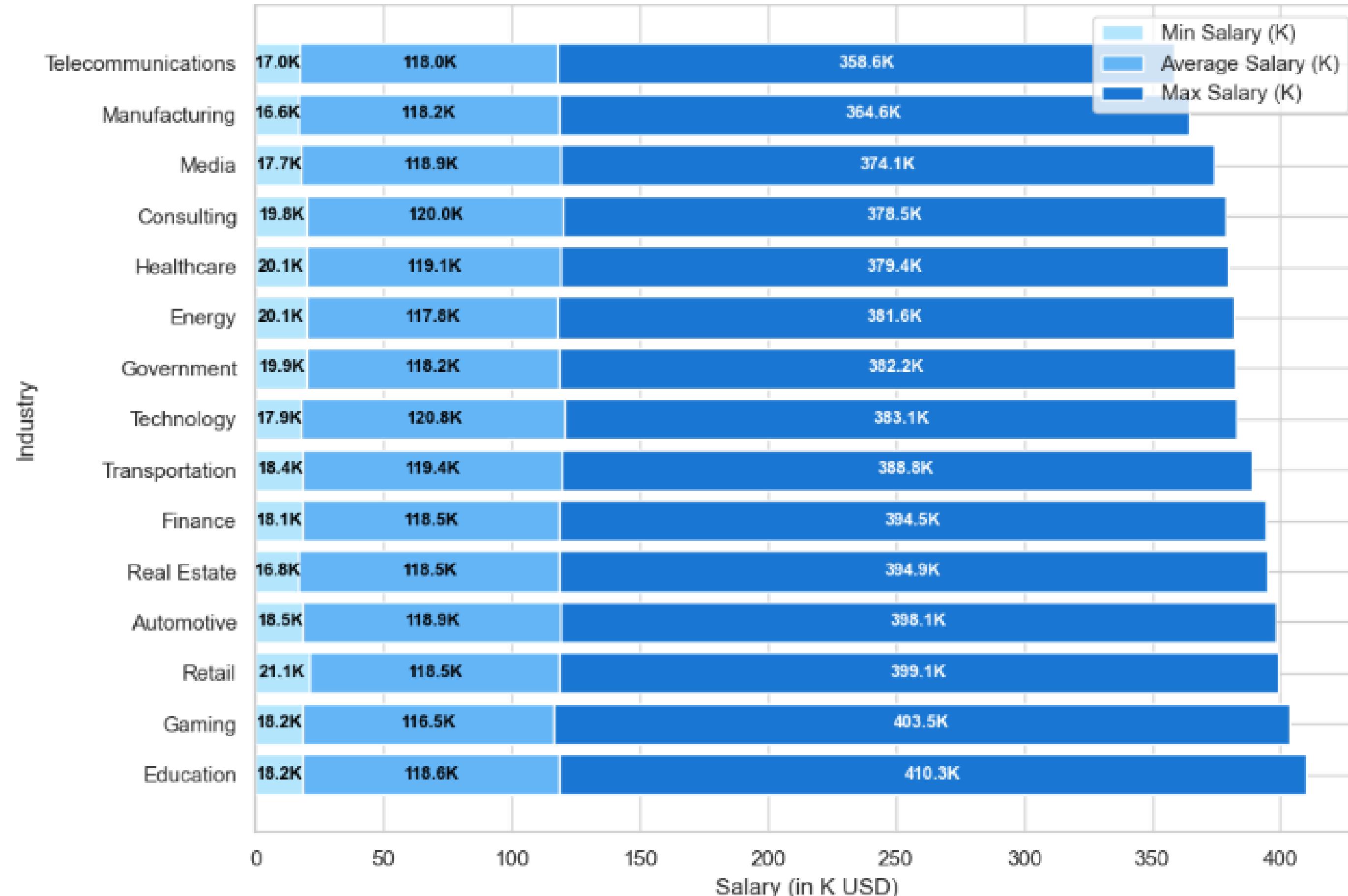
Salary for each role per country

	Israel	Japan	Netherlands	Norway	Singapore	South Korea	Sweden	Switzerland	United Kingdom	United States
AI Architect	92.2K	107.3K	133.3K	168.8K	134.5K	97.4K	131.2K	169.1K	124.2K	148.0K
AI Consultant	99.1K	127.1K	123.4K	150.0K	131.0K	83.9K	116.2K	166.3K	126.2K	135.7K
AI Product Manager	98.3K	118.0K	123.5K	153.2K	119.1K	88.0K	128.3K	173.3K	127.3K	139.1K
AI Research Scientist	97.3K	103.7K	123.2K	161.5K	135.0K	100.5K	127.4K	186.5K	139.2K	136.0K
AI Software Engineer	99.2K	112.5K	120.3K	141.3K	126.7K	100.3K	141.2K	167.7K	119.7K	143.0K
AI Specialist	102.6K	109.8K	137.8K	164.9K	121.0K	93.8K	113.5K	190.8K	137.4K	148.2K
Autonomous Systems Engineer	103.6K	118.8K	120.3K	156.0K	126.3K	94.8K	111.2K	164.9K	133.9K	147.7K
Computer Vision Engineer	105.9K	115.0K	127.0K	156.3K	118.9K	95.3K	114.2K	155.9K	121.2K	166.1K
Data Analyst	93.8K	100.4K	122.8K	160.9K	125.3K	97.1K	121.3K	164.4K	121.2K	148.1K
Data Engineer	103.8K	107.9K	125.0K	175.0K	134.2K	86.5K	124.6K	171.1K	137.6K	138.9K
Data Scientist	107.4K	103.3K	121.4K	174.1K	144.5K	88.9K	128.3K	178.0K	129.1K	139.4K
Deep Learning Engineer	113.6K	105.0K	138.9K	169.6K	123.1K	86.5K	126.7K	181.8K	136.7K	140.9K
Head of AI	106.9K	115.0K	139.0K	149.9K	133.5K	94.4K	125.5K	180.4K	130.8K	146.4K
ML Ops Engineer	94.9K	104.5K	133.5K	164.0K	139.2K	95.1K	133.5K	174.1K	126.1K	139.9K
Machine Learning Engineer	108.6K	104.3K	144.3K	160.3K	133.6K	87.4K	123.0K	170.4K	136.7K	147.8K
Machine Learning Researcher	98.7K	105.6K	119.0K	152.7K	128.2K	85.9K	117.4K	182.8K	127.0K	149.7K
NLP Engineer	104.4K	108.1K	144.0K	171.3K	123.3K	95.9K	114.3K	165.8K	124.2K	145.1K
Principal Data Scientist	96.8K	104.3K	121.5K	170.8K	124.2K	86.3K	127.9K	163.9K	132.4K	135.6K
Research Scientist	103.9K	100.8K	132.3K	149.9K	130.0K	83.1K	127.0K	171.1K	132.6K	143.7K
Robotics Engineer	104.7K	109.5K	126.0K	157.7K	124.7K	95.2K	113.3K	161.3K	130.2K	145.2K

Average Salary (USD) by Job Title and Experience Level



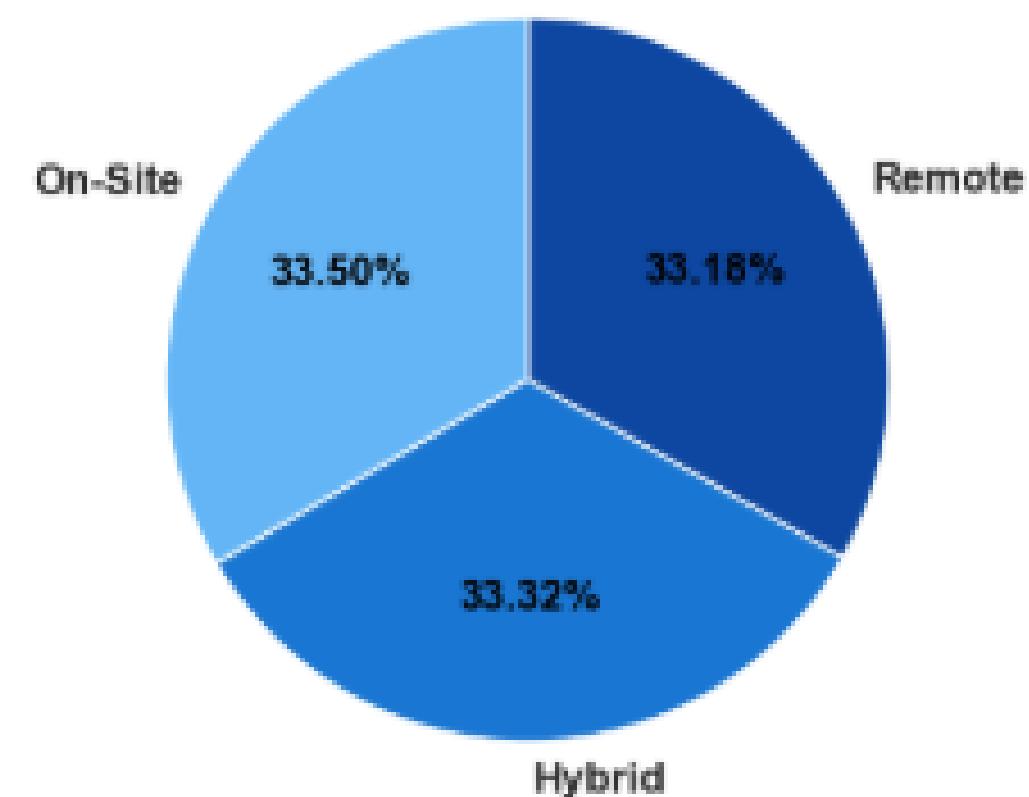
Salary Range (Min–Average–Max) by Industry



Work Mode Percentage by Job Title

	On-Site	Hybrid	Remote
AI Architect	33.42	33.16	33.42
AI Consultant	34.09	31.4	34.51
AI Product Manager	31.59	36.1	33.31
AI Research Scientist	33.92	35.34	30.74
AI Software Engineer	30.78	33.75	35.47
AI Specialist	33.75	32.49	33.75
Autonomous Systems Engineer	30.74	36.1	33.16
Computer Vision Engineer	31.72	34.77	33.51
Data Analyst	31.75	34.29	33.96
Data Engineer	34.39	31.62	33.99
Data Scientist	33.04	32.64	34.32
Deep Learning Engineer	33.38	35.04	31.58
Head of AI	34.72	33.29	31.99
ML Ops Engineer	34.72	32.96	32.32
Machine Learning Engineer	32.71	32.71	34.59
Machine Learning Researcher	36.25	31.78	31.97
NLP Engineer	32.6	33.47	33.93
Principal Data Scientist	34.55	31.76	33.69
Research Scientist	36.06	32.32	30.62
Robotics Engineer	35.24	32.35	32.41
Total	33.5	33.32	33.18

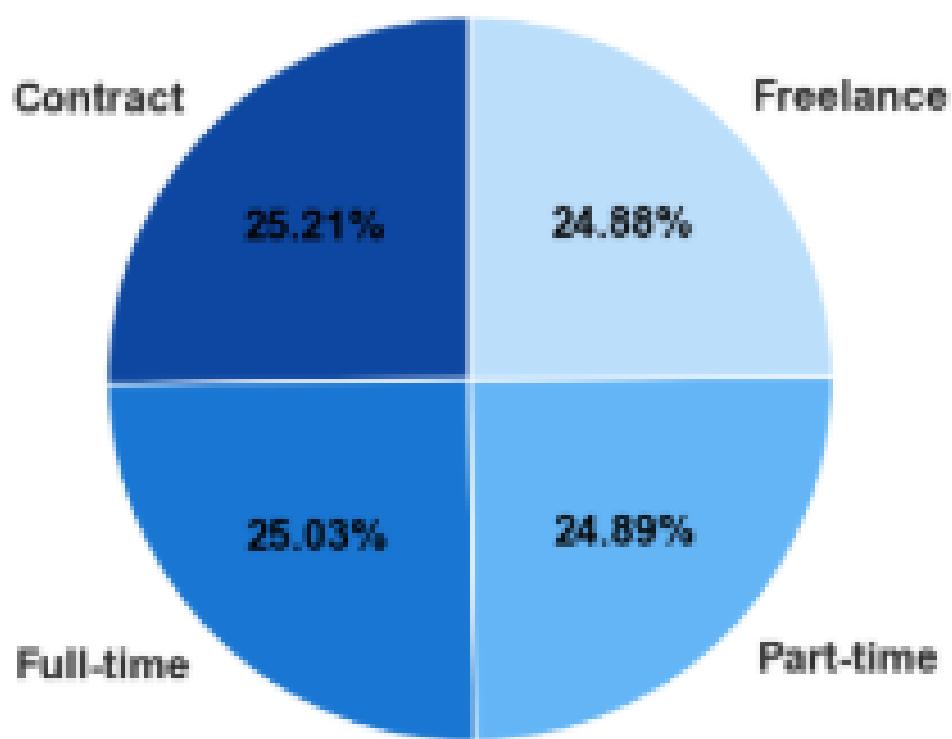
Overall Work Mode Distribution



Employment Type Percentage by Job Title

	Contract	Full-time	Part-time	Freelance
AI Architect	24.26	26.88	25.18	23.68
AI Consultant	26.25	24.42	24.42	24.91
AI Product Manager	23.29	26.81	24.82	25.08
AI Research Scientist	25.41	24.59	24.93	25.07
AI Software Engineer	24.83	25.17	24.77	25.23
AI Specialist	24.57	23.5	25.7	26.23
Autonomous Systems Engineer	26.57	25.65	24.15	23.63
Computer Vision Engineer	24.6	24.67	25.13	25.6
Data Analyst	25.32	24.98	25.39	24.31
Data Engineer	25.3	23.85	25.03	25.82
Data Scientist	25.22	24.48	27.17	23.13
Deep Learning Engineer	25.53	23.94	25.73	24.8
Head of AI	26.47	23.26	24.42	25.85
ML Ops Engineer	26.17	22.98	23.83	27.02
Machine Learning Engineer	27.32	26.32	21.99	24.37
Machine Learning Researcher	23.28	27.24	24.77	24.71
NLP Engineer	23.82	25.75	24.82	25.62
Principal Data Scientist	23.57	25.57	26.9	23.97
Research Scientist	26.82	25.12	23.9	24.17
Robotics Engineer	25.64	25.05	24.79	24.52
Total	25.21	25.03	24.89	24.88

Overall Employment Type Distribution



Top 5 Industries by AI Hiring Volume per Role					
Job Title	#1 Industry	#2 Industry	#3 Industry	#4 Industry	#5 Industry
AI Architect	Technology	Consulting	Manufacturing	Automotive	Finance
AI Consultant	Real Estate	Automotive	Education	Gaming	Media
AI Product Manager	Consulting	Technology	Finance	Government	Retail
AI Research Scientist	Media	Finance	Government	Retail	Consulting
AI Software Engineer	Real Estate	Gaming	Consulting	Media	Finance
AI Specialist	Automotive	Manufacturing	Consulting	Education	Media
Autonomous Systems Engineer	Consulting	Energy	Healthcare	Government	Finance
Computer Vision Engineer	Real Estate	Gaming	Healthcare	Media	Telecommunications
Data Analyst	Technology	Government	Gaming	Energy	Real Estate
Data Engineer	Automotive	Manufacturing	Retail	Healthcare	Telecommunications
Data Scientist	Retail	Transportation	Telecommunications	Technology	Finance
Deep Learning Engineer	Automotive	Retail	Technology	Transportation	Energy
Head of AI	Finance	Education	Gaming	Government	Healthcare
ML Ops Engineer	Media	Automotive	Manufacturing	Telecommunications	Retail
Machine Learning Engineer	Healthcare	Education	Media	Automotive	Government
Machine Learning Researcher	Consulting	Retail	Manufacturing	Telecommunications	Education
NLP Engineer	Technology	Finance	Transportation	Automotive	Energy
Principal Data Scientist	Transportation	Real Estate	Technology	Government	Consulting
Research Scientist	Government	Real Estate	Transportation	Telecommunications	Automotive
Robotics Engineer	Media	Finance	Government	Retail	Education

Tableau

“Elegant Visualization”



FactAIJobs.csv

DimCompany.csv

DimEmployee.csv

DimJob.csv

DimSkills.csv

AI Jobs Dashboard

16 N.of companies

30K Employees

24 Skills

20 Countries

118.67K Avg.Salary

Company Location
(All)

Salary by Experience Level

Experience Level	Percentage
Executive	41.70%
Mid	19.01%
Senior	25.79%
Entry	13.50%

Expirience year by Experience level

Experience Level	Approx. Proportion
Executive	~40%
Senior	~25%
Mid	~20%
Entry	~15%

Most Salaries in the world

Country	Max. Salary (USD)
Switzerland	400K
Denmark	380K
Norway	360K
United States	340K
Netherlands	320K
United Kingdom	300K
Singapore	300K
Japan	300K

Top 3 Skills

Skill	Count
TensorFlow	6,118
Python	8,949
SQL	6,918

Experience by Years

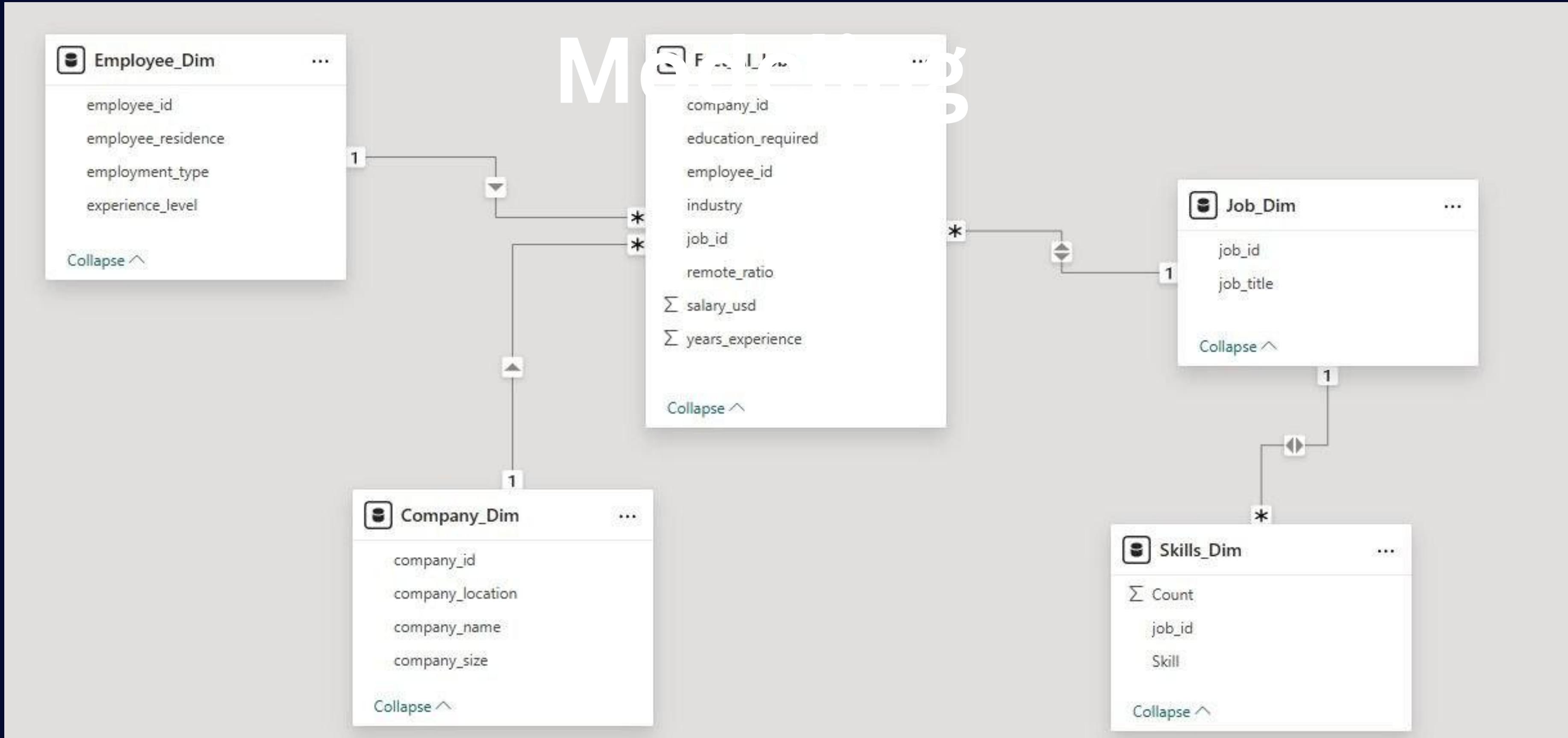
Experience Year	Count
Entry	1,462
Executive	44,956
Mid	9,062
Senior	20,718

Power BI

“Less is more”



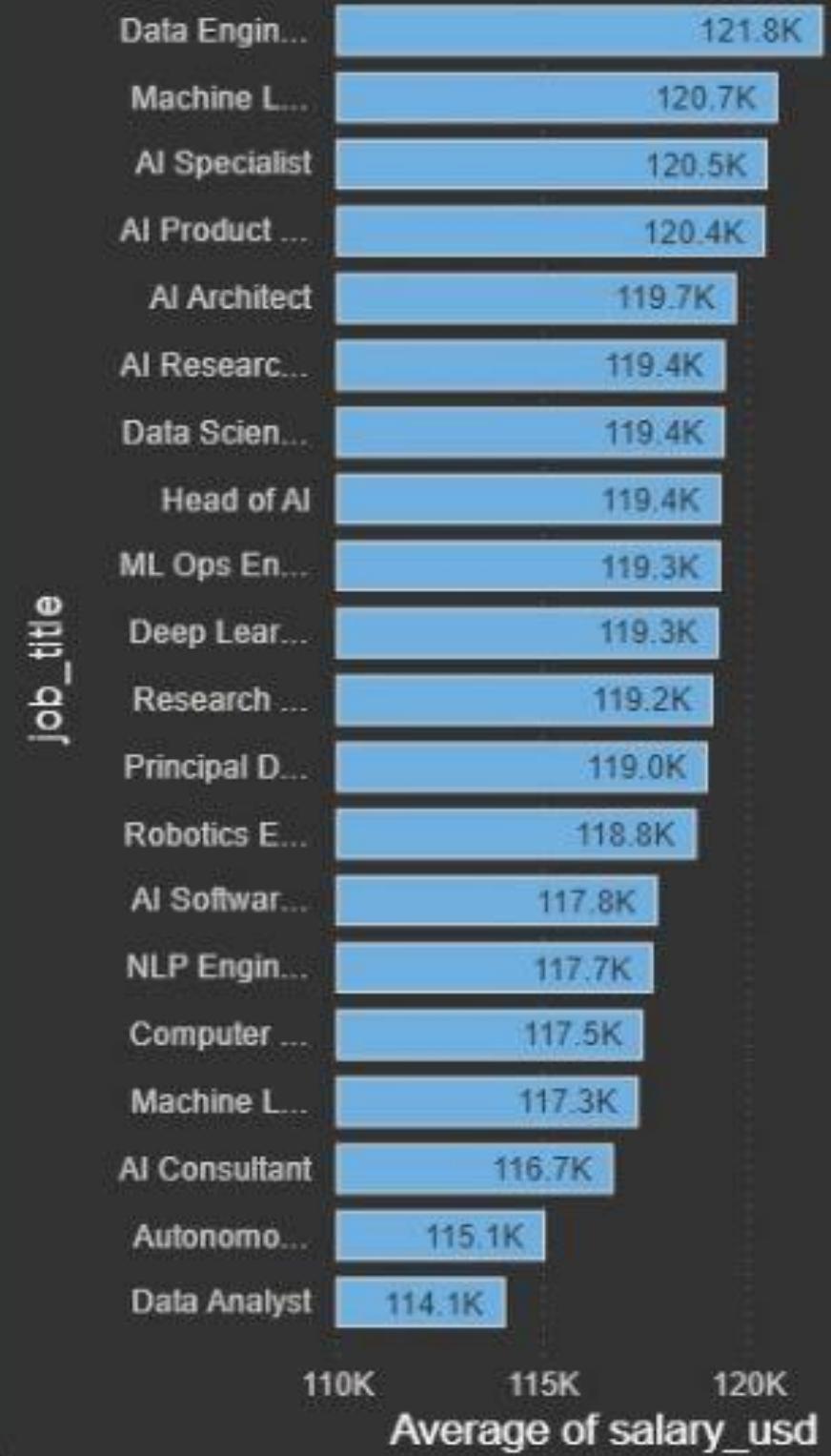
Data



Ai Jobs Analysis



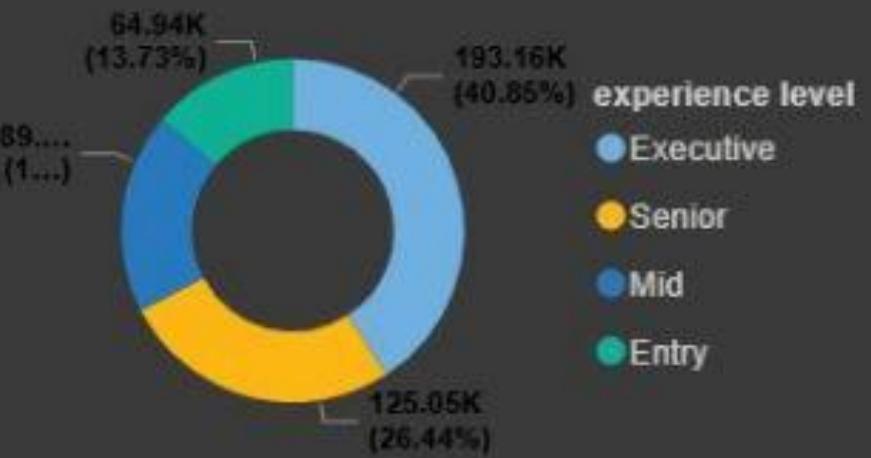
Average of salary by job title



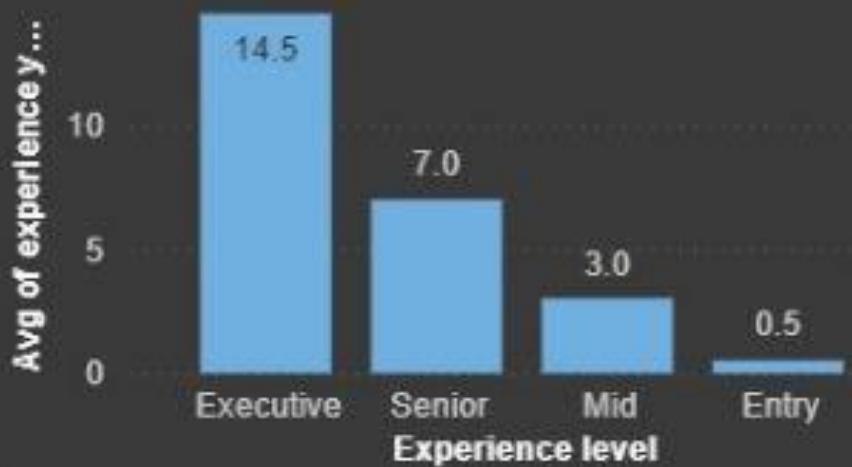
30K
Employees

24
Skills

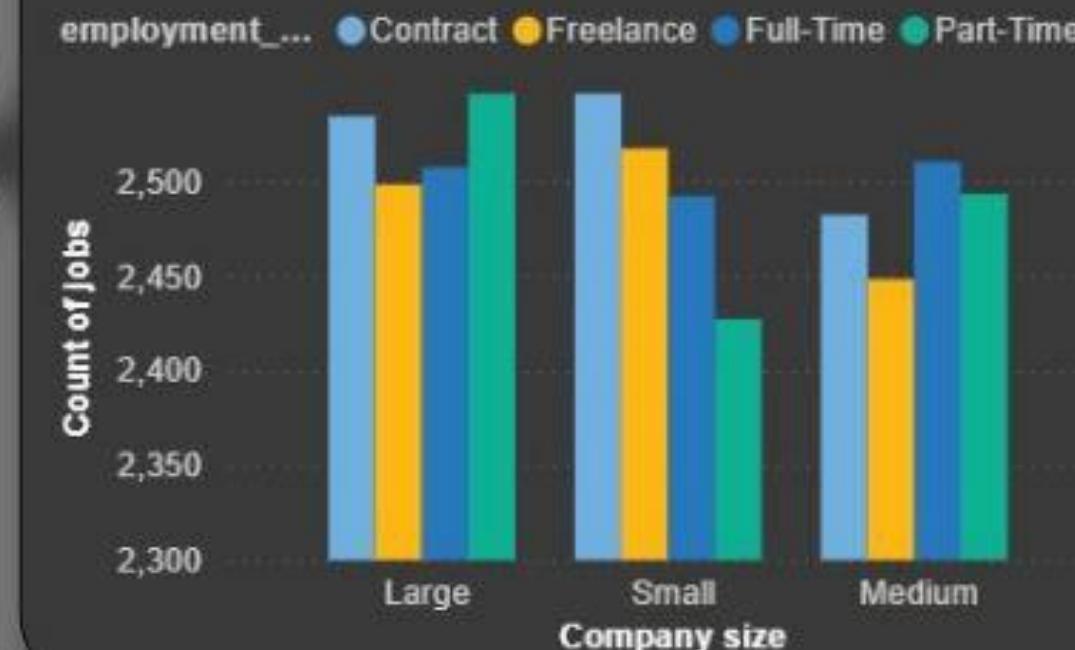
Average of salary by experience level



Average of experience years by experience level



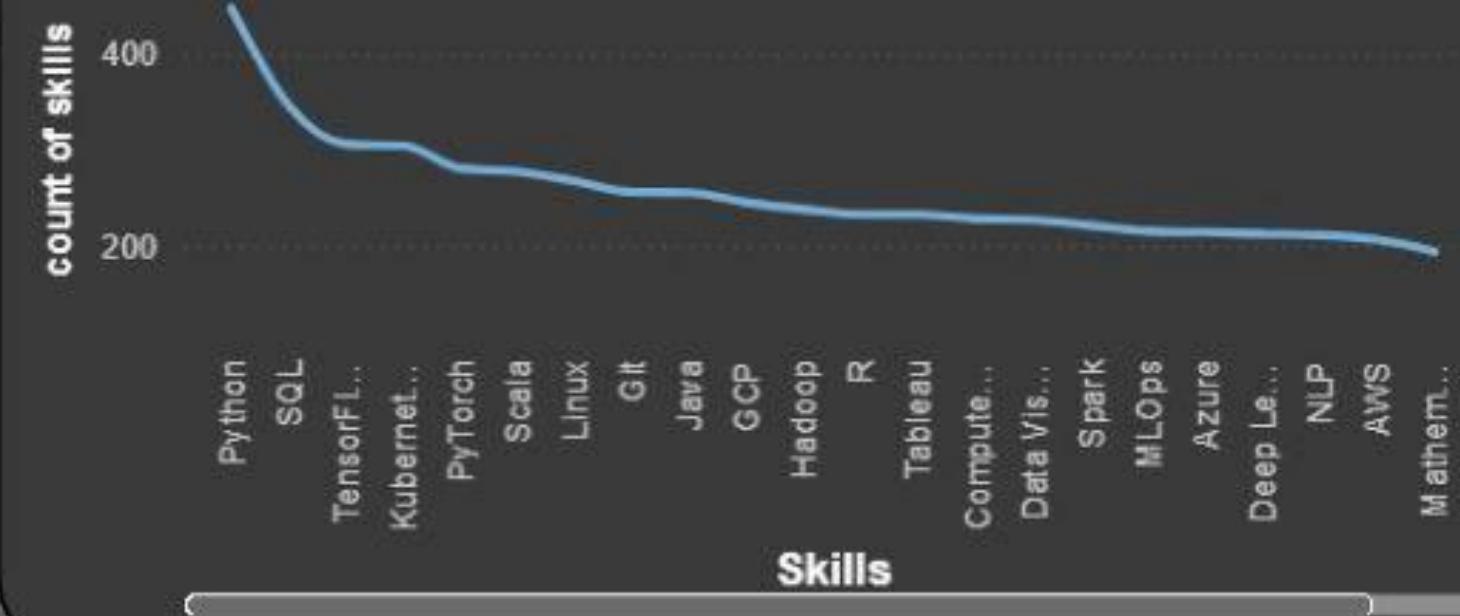
Count of jobs by company size and employment type



16
Companies

20
Countries

Count of skills required



Insights Conclusion

- Top 3 required skills (Python - TenserFlow - SQL)
- U.S.A has the highest salaries
- Full-Time jobs are dominant in large and medium companies
- Contract jobs are dominant in small companies
- Remote Jobs have the highest salary
- Employees with Master's Degree have the highest salary
- The percent of companies size is equal
- The percent of employment type is equal

Thank you!