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# GLOBAL AI JOB MARKET & SALARY TRENDS 2025

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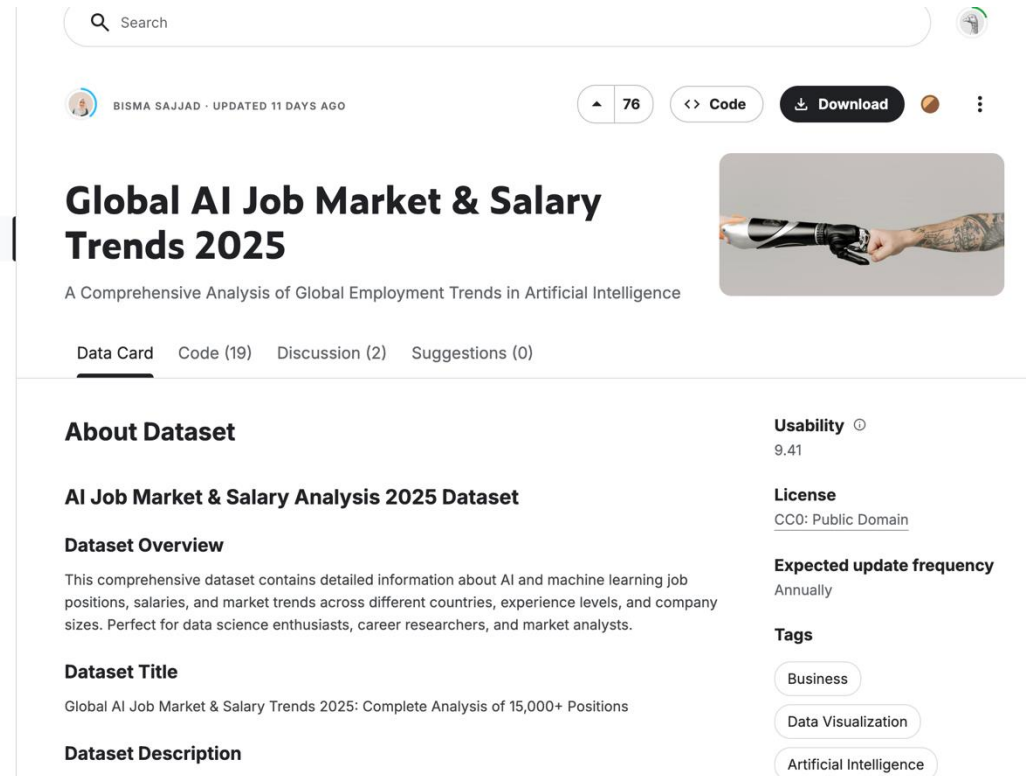
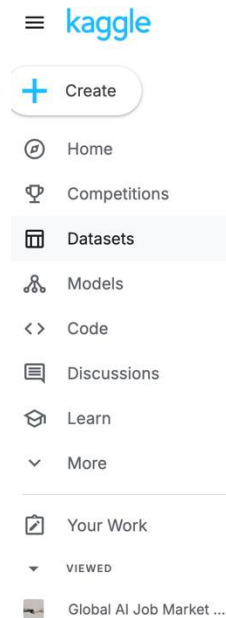
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# INTRODUCTION

- Dataset is **Global AI Job Market & Salary**
- **New and interesting** dataset
- It contains **15,000 entries and 19 columns** (job\_title, salary\_usd, years\_experience, and etc)
- Using **Python** to analyze data
- Using **matplotlib** and **seaborn** to **visually** present key insights from the analysis
- **Dataset downloaded from Kaggle :**
  - <https://www.kaggle.com/datasets/bismasajjad/global-ai-job-market-and-salary-trends-2025/data>

# DATASET

- Data was collected through ethical web scraping from major job platforms including:
  - LinkedIn Jobs
  - Indeed
  - Glassdoor
  - AngelList
  - Stack Overflow Jobs
  - Company career pages
- January 2024 - May 2025



# SAMPLE DATA PREVIEW

job\_id,job\_title,salary\_usd,experience\_level,company\_location,remote\_ratio

- AI001,Senior ML Engineer,I45000,SE,United States,50
- AI002,Data Scientist,89000,MI,Germany,I00
- AI003,AI Research Scientist,I75000,EX,United Kingdom,0

```
df.info()
```



```
<class 'pandas.core.frame.DataFrame'>  
RangeIndex: 15000 entries, 0 to 14999  
output actions columns (total 19 columns):
```

#	Column	Non-Null	Count	Dtype
0	job_id	15000	non-null	object
1	job_title	15000	non-null	object
2	salary_usd	15000	non-null	int64
3	salary_currency	15000	non-null	object
4	experience_level	15000	non-null	object
5	employment_type	15000	non-null	object
6	company_location	15000	non-null	object
7	company_size	15000	non-null	object
8	employee_residence	15000	non-null	object
9	remote_ratio	15000	non-null	int64
10	required_skills	15000	non-null	object
11	education_required	15000	non-null	object
12	years_experience	15000	non-null	int64
13	industry	15000	non-null	object
14	posting_date	15000	non-null	object
15	application_deadline	15000	non-null	object
16	job_description_length	15000	non-null	int64
17	benefits_score	15000	non-null	float64
18	company_name	15000	non-null	object

dtypes: float64(1), int64(4), object(14)  
memory usage: 2.2+ MB

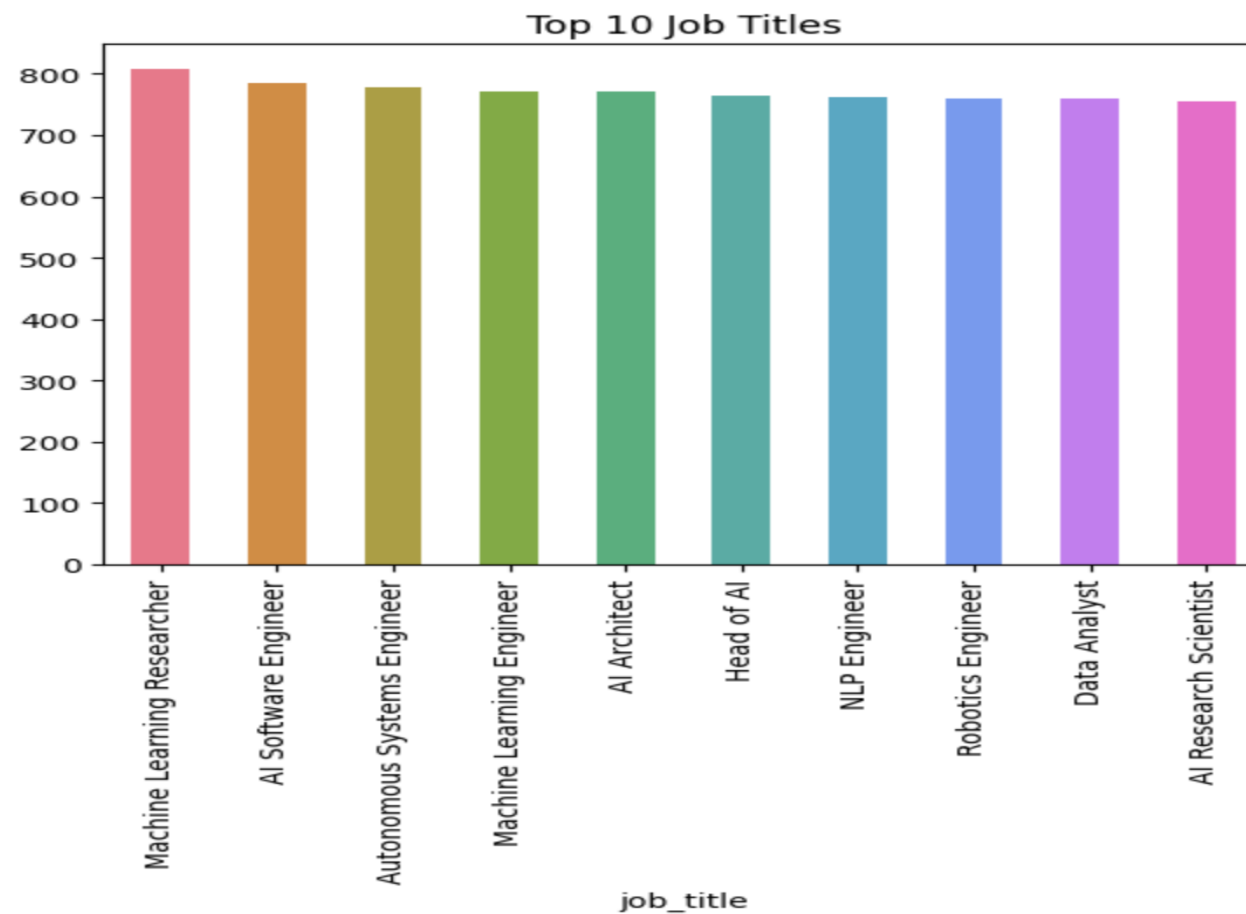
# INTERESTING QUESTION

Which Countries has the  
most **job opportunities**  
in the world?



# INTERESTING QUESTION

What are most **top job title?**



# INTERESTING QUESTION

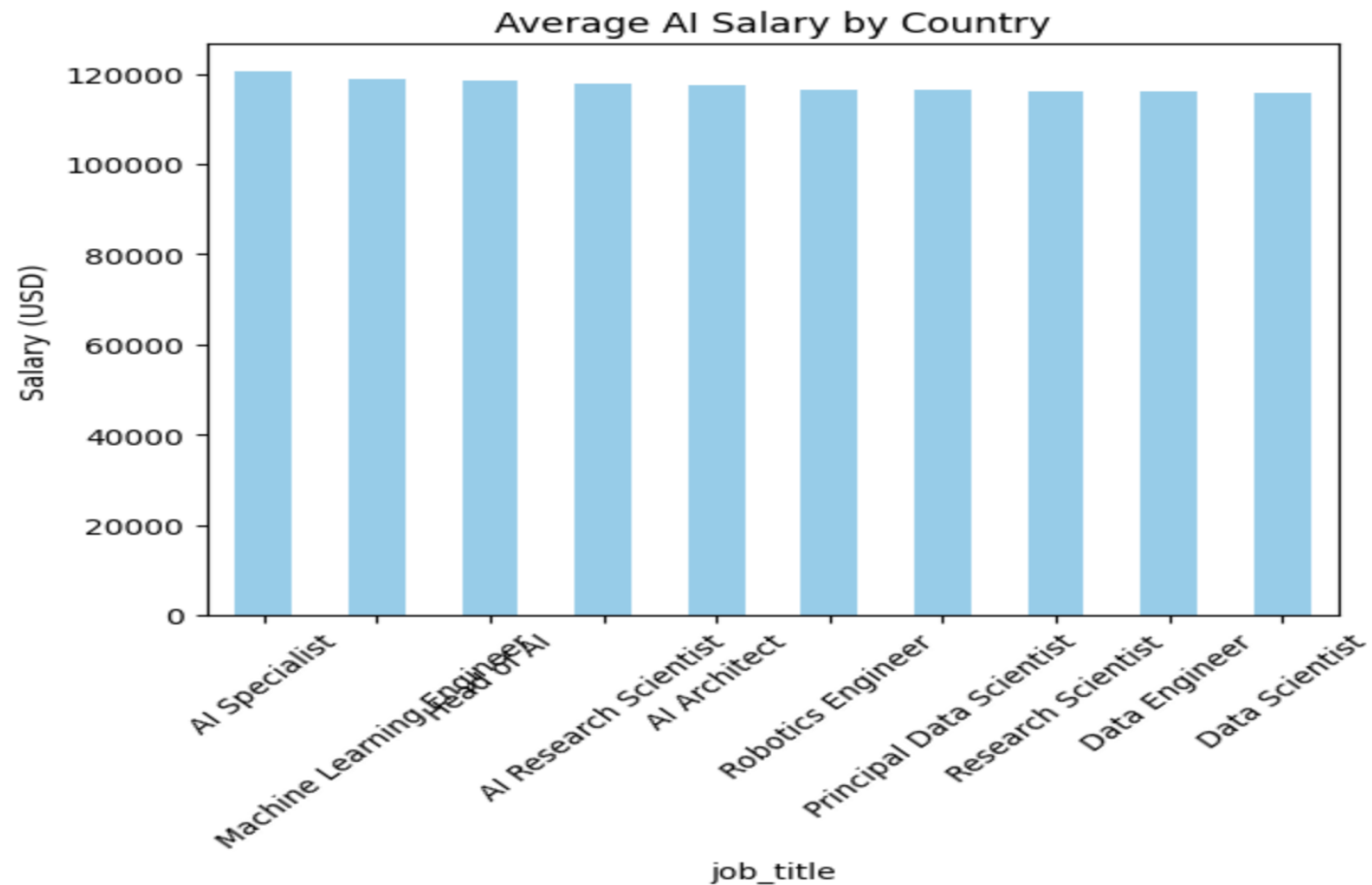
Which **skills** require for  
different **job title**?

required_skills	
job_title	
AI Architect	Data Visualization, R, SQL, Linux, R, Data Vis...
AI Research Scientist	Tableau, PyTorch, Kubernetes, Linux, NLP, PyTo...
AI Software Engineer	Deep Learning, AWS, Mathematics, Python, Docke...
Autonomous Systems Engineer	MLOps, Python, SQL, Scala, SQL, Statistics, Ta...
Data Analyst	Hadoop, Git, Mathematics, Python, Mathematics,...
Head of AI	Python, Scala, NLP, Mathematics, Git, Deep Lea...
Machine Learning Engineer	MLOps, PyTorch, Azure, Git, Linux, Python, Ten...
Machine Learning Researcher	Hadoop, Docker, Python, Azure, Hadoop, Python,...
NLP Engineer	Scala, SQL, Linux, Python, Python, SQL, Comput...
Robotics Engineer	Linux, Git, Tableau, Kubernetes, Data Visualiz...



# INTERESTING QUESTION

Which **Job titles** has more salaries?

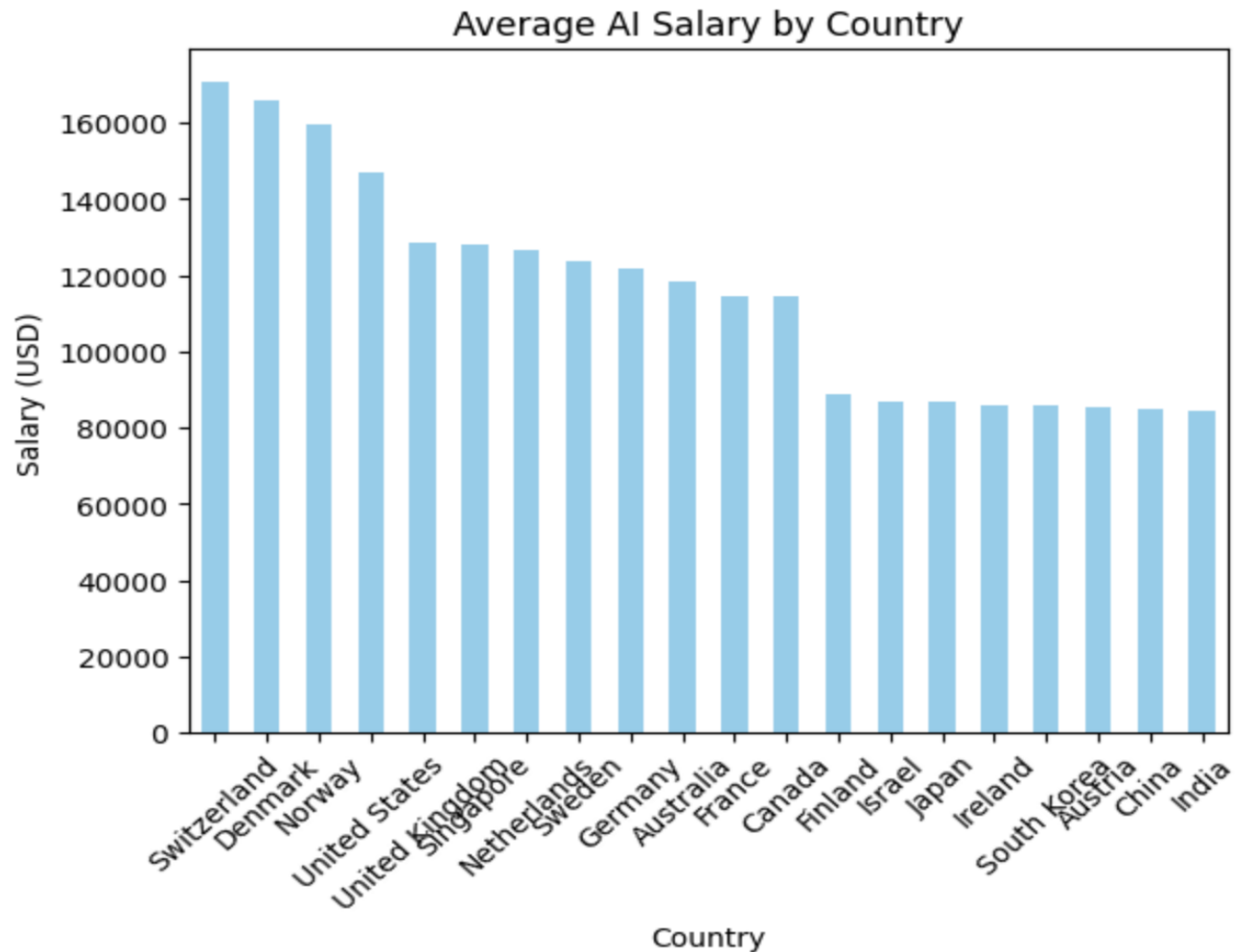




# Germany

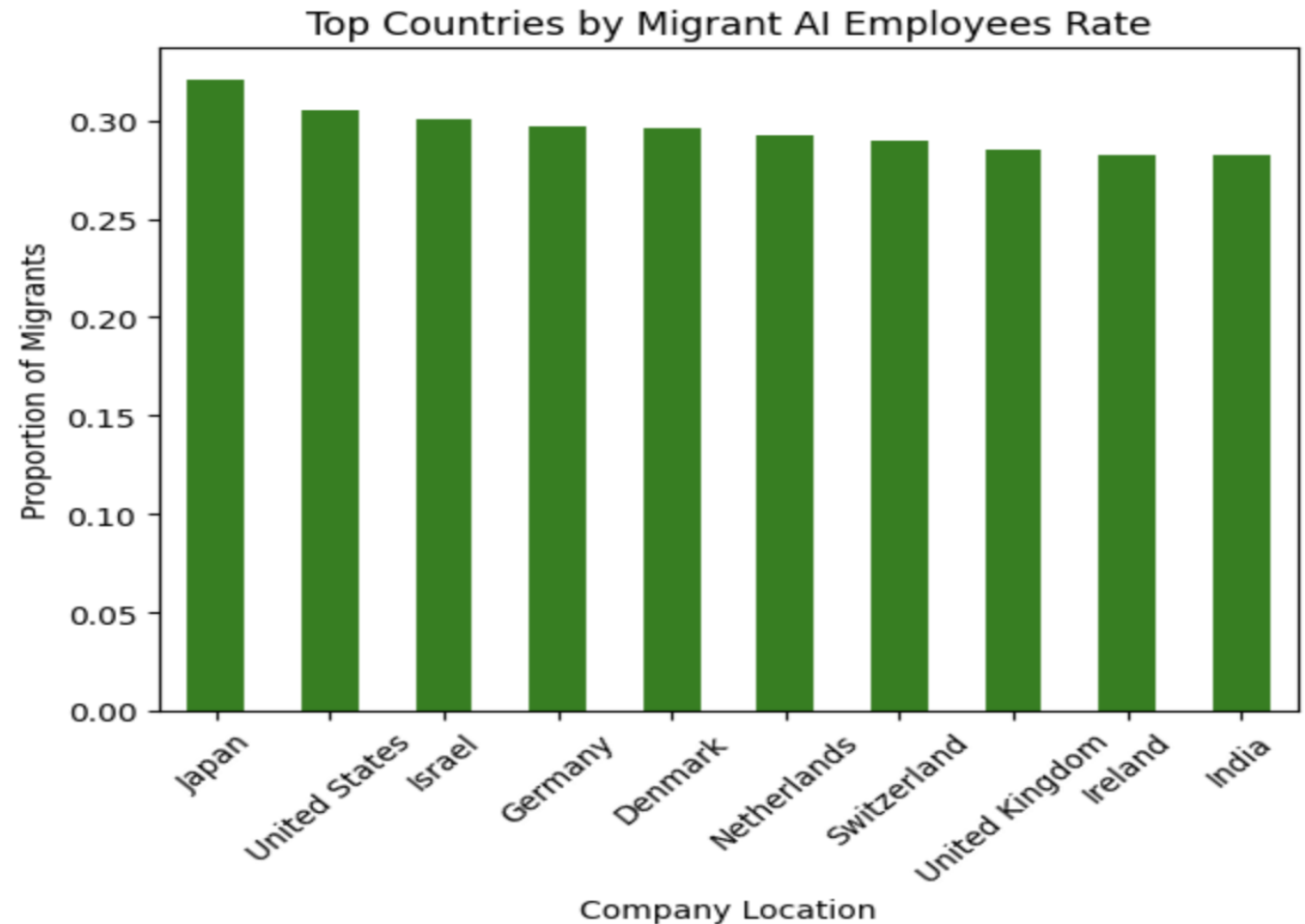
# HYPOTHESIS I

German company has the highest **AI salary** in the world



## HYPOTHESIS 2

Germany has the highest  
**number of Migrant AI  
Employee** in the world

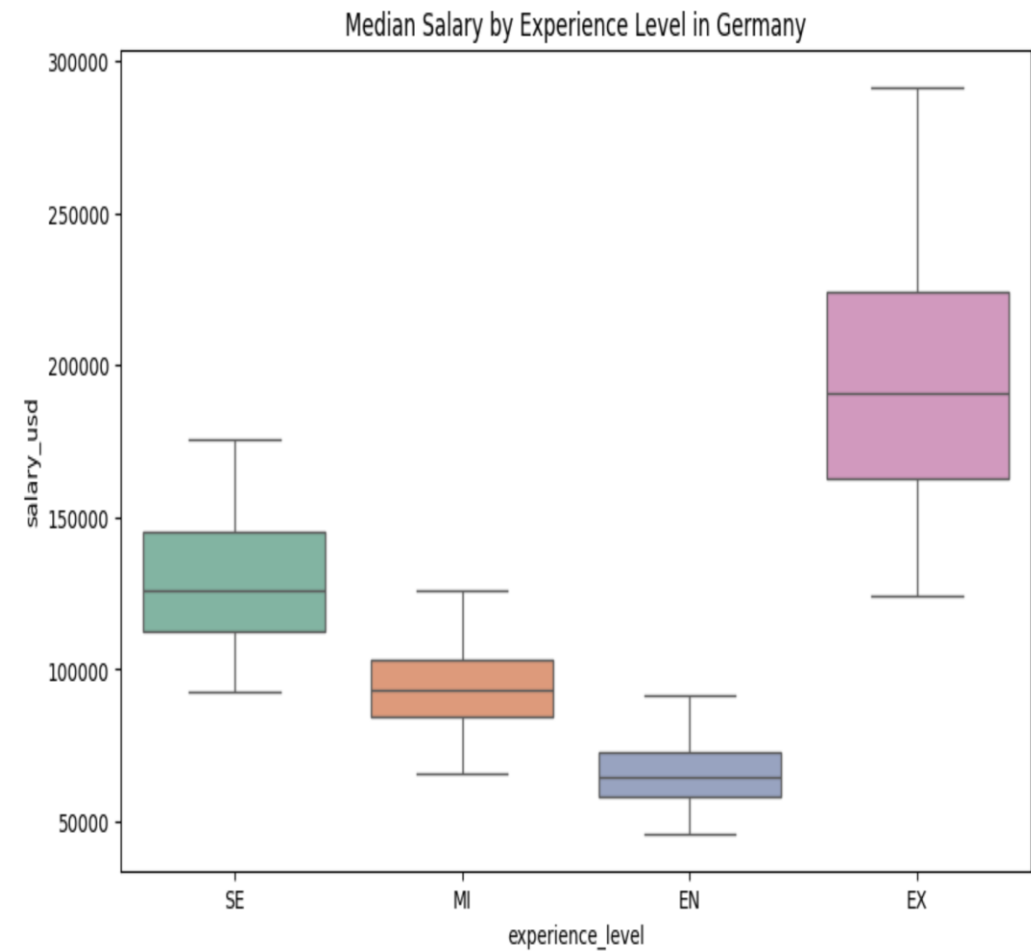
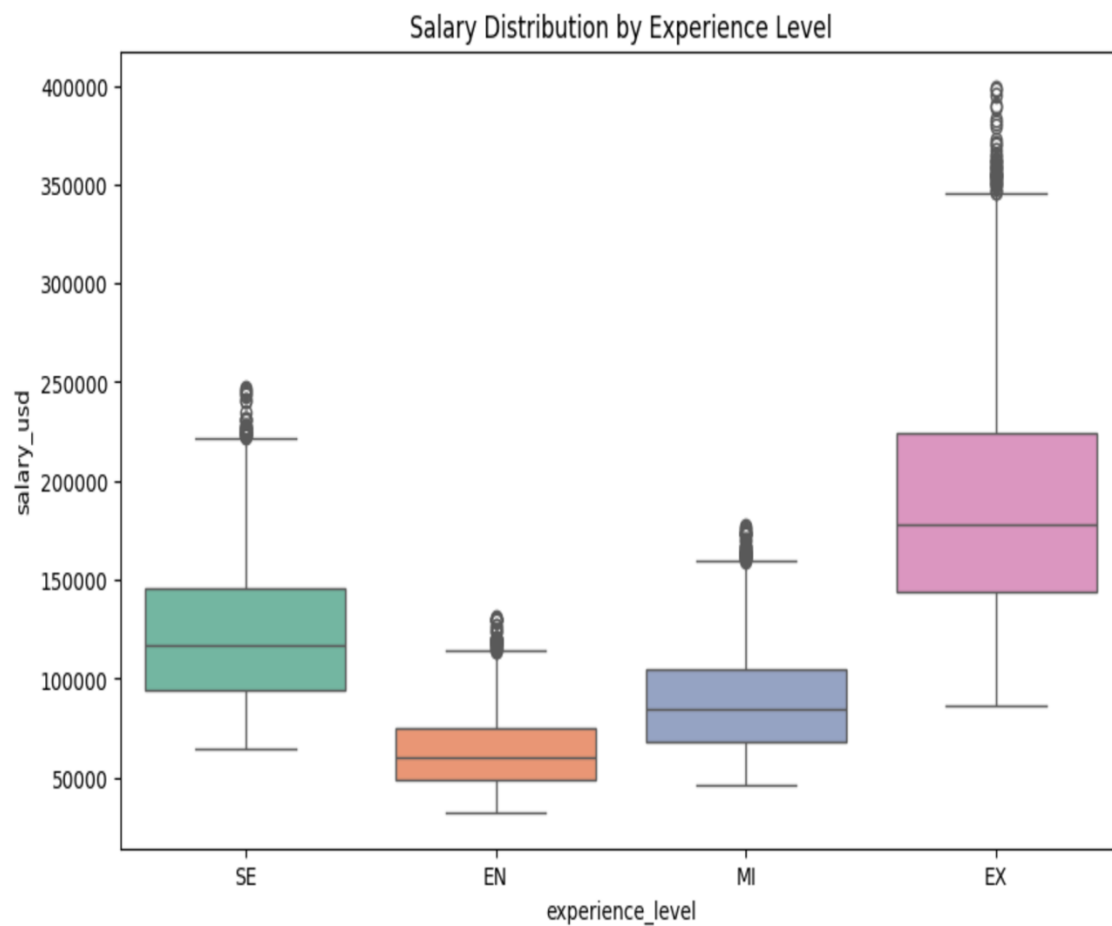


## HYPOTHESIS 3

**Experience level** (e.g. Senior vs Entry) has a great impact on **salaries** in Germany and Global



# HYPOTHESIS 3



## HYPOTHESIS 4

**Large companies in  
Germany have  
higher salaries.**

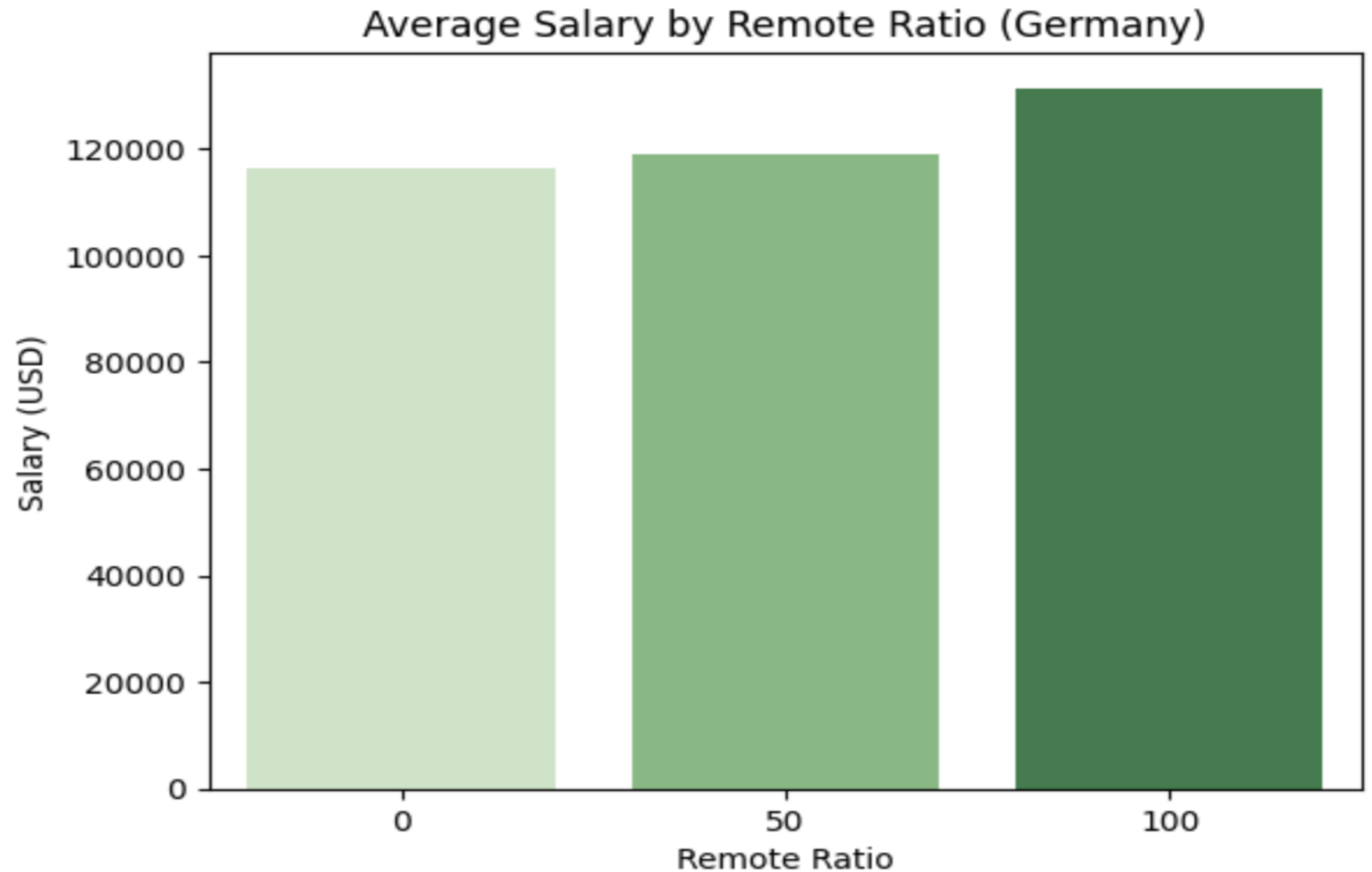


## HYPOTHESIS 5

**Remote workers in Germany have less salaries**



remote\_ratio has values 0, 50, and 100, representing on-site, hybrid, and fully remote work.







THANK YOU!

FOR YOUR ATTENSION