

Project Name -

Glassdoor EDA

Project Summary -

Analysis of Glassdoor Data.

GitHub Link -

<https://github.com/Rohits933>

Problem Statement -

1. How Does Salary vary by Job Position (e.g., Data Scientist vs Data Engineet vs DevOps Engineer)
2. What is the impact of Company Size on salart levels?
3. How do Salaries differ by location(e.g., San Francisco vs. Austin vs. New York)?

Lets Begin - First of all Import All Library - Numpy, Pandas and plotly.

```
import pandas as pd
import numpy as np
import plotly.express as px
```

Connect - import data from drive using pd.read\_csv(File).

```
Data = pd.read_csv('/content/drive/MyDrive/Internship Project/Project 2 – Glassdoor Project/glassdoor_jobs.csv')
Data
```

	Unnamed: 0	Job Title	Salary Estimate	Job Description	Rating	Company Name	Location	Headquarters	Size	Founded	Type of ownership	Industry	Sector	Revenue	Co
0	0	Data Scientist	\$53K-\$91K (Glassdoor est.)	Data Scientist\nLocation: Albuquerque, NM\nEdu...	3.8	Tecolote Research\n3.8	Albuquerque, NM	Goleta, CA	501 to 1000 employees	1973	Company - Private	Aerospace & Defense	Aerospace & Defense	\$50 to \$100 million (USD)	
1	1	Healthcare Data Scientist	\$63K-\$112K (Glassdoor est.)	What You Will Do:\n\nI. General Summary\n\nThe...	3.4	University of Maryland Medical System\n3.4	Linthicum, MD	Baltimore, MD	10000+ employees	1984	Other Organization	Health Care Services & Hospitals	Health Care	\$2 to \$5 billion (USD)	
2	2	Data Scientist	\$80K-\$90K (Glassdoor est.)	KnowBe4, Inc. is a high growth information sec...	4.8	KnowBe4\n4.8	Clearwater, FL	Clearwater, FL	501 to 1000 employees	2010	Company - Private	Security Services	Business Services	\$100 to \$500 million (USD)	
3	3	Data Scientist	\$56K-\$97K (Glassdoor est.)	*Organization and Job ID*\n\nJob ID: 310709\n\n...	3.8	PNNL\n3.8	Richland, WA	Richland, WA	1001 to 5000 employees	1965	Government	Energy	Oil, Gas, Energy & Utilities	\$500 million to \$1 billion (USD)	
4	4	Data Scientist	\$86K-\$143K (Glassdoor est.)	Data Scientist\nAffinity Solutions / Marketing...	2.9	Affinity Solutions\n2.9	New York, NY	New York, NY	51 to 200 employees	1998	Company - Private	Advertising & Marketing	Business Services	Unknown / Non-Applicable	
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
951	951	Senior Data Engineer	\$72K-\$133K (Glassdoor est.)	THE CHALLENGE\nEventbrite has a world-class da...	4.4	Eventbrite\n4.4	Nashville, TN	San Francisco, CA	1001 to 5000 employees	2006	Company - Public	Internet	Information Technology	\$100 to \$500 million (USD)	
952	952	Project Scientist - Auton Lab, Robotics Institute	\$56K-\$91K (Glassdoor est.)	The Auton Lab at Carnegie Mellon University is...	2.6	Software Engineering Institute\n2.6	Pittsburgh, PA	Pittsburgh, PA	501 to 1000 employees	1984	College / University	Colleges & Universities	Education	Unknown / Non-Applicable	
953	953	Data Science Manager	\$95K-\$160K (Glassdoor est.)	Data Science ManagerResponsibilities:\n\nOvers...	3.2	Numeric, LLC\n3.2	Allentown, PA	Chadds Ford, PA	1 to 50 employees	-1	Company - Private	Staffing & Outsourcing	Business Services	\$5 to \$10 million (USD)	
954	954	Data Engineer	-1	Loading...\n\nTitle: Data Engineer\n\nLocation:	4.8	IGNW\n4.8	Austin, TX	Portland, OR	201 to 500 employees	2015	Company - Private	IT Services	Information Technology	\$25 to \$50 million (USD)	

Information of Dataframe and we found no null values in Data.

```
Data.info()
```

```
<class 'pandas.core.frame.DataFrame'>
Index: 732 entries, 0 to 955
Data columns (total 15 columns):
 #   Column              Non-Null Count  Dtype
---  -
 0   Unnamed: 0          732 non-null   int64
 1   Job Title           732 non-null   object
 2   Salary Estimate     732 non-null   object
 3   Job Description     732 non-null   object
 4   Rating              732 non-null   float64
 5   Company Name        732 non-null   object
 6   Location            732 non-null   object
 7   Headquarters        732 non-null   object
 8   Size                732 non-null   object
 9   Founded             732 non-null   int64
10   Type of ownership   732 non-null   object
11   Industry            732 non-null   object
```

```
12 Sector          732 non-null object
13 Revenue         732 non-null object
14 Competitors     732 non-null object
dtypes: float64(1), int64(2), object(12)
memory usage: 91.5+ KB
```

We can see that in data salary Estimate is in object - dtype but we need it in integer (Number) dtype. So We have to remove '\$', 'K', '(Glassdoor estimate)' etc. to get numerical value.

```
Data = Data[Data['Salary Estimate']!='-1']
Data = Data[Data['Size']!='-1']
Data = Data[Data['Size']!='Unknown']
Data
```

	Unnamed: 0	Job Title	Salary Estimate	Job Description	Rating	Company Name	Location	Headquarters	Size	Founded	Type of ownership	Industry	Sector	Revenue
0	0	Data Scientist	\$53K-\$91K (Glassdoor est.)	Data Scientist\nLocation: Albuquerque, NM\nEdu...	3.8	Tecolote Research\n3.8	Albuquerque, NM	Goleta, CA	501 to 1000 employees	1973	Company - Private	Aerospace & Defense	Aerospace & Defense	\$100m (US)
1	1	Healthcare Data Scientist	\$63K-\$112K (Glassdoor est.)	What You Will Do:\n\nI. General Summary\n\nThe...	3.4	University of Maryland Medical System\n3.4	Linthicum, MD	Baltimore, MD	10000+ employees	1984	Other Organization	Health Care Services & Hospitals	Health Care	\$21.5b (US)
2	2	Data Scientist	\$80K-\$90K (Glassdoor est.)	KnowBe4, Inc. is a high growth information sec...	4.8	KnowBe4\n4.8	Clearwater, FL	Clearwater, FL	501 to 1000 employees	2010	Company - Private	Security Services	Business Services	\$100m (US)
3	3	Data Scientist	\$56K-\$97K (Glassdoor est.)	*Organization and Job ID**\nJob ID: 310709\n\n...	3.8	PNNL\n3.8	Richland, WA	Richland, WA	1001 to 5000 employees	1965	Government	Energy	Oil, Gas, Energy & Utilities	\$1 billion (US)
4	4	Data Scientist	\$86K-\$143K (Glassdoor est.)	Data Scientist\nAffinity Solutions / Marketing...	2.9	Affinity Solutions\n2.9	New York, NY	New York, NY	51 to 200 employees	1998	Company - Private	Advertising & Marketing	Business Services	Unknown / I Applic
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
950	950	Sr Scientist, Immunology - Oncology	\$58K-\$111K (Glassdoor est.)	Site Name: USA - Massachusetts - Cambridge\nPo...	3.9	GSK\n3.9	Cambridge, MA	Brentford, United Kingdom	10000+ employees	1830	Company - Public	Biotech & Pharmaceuticals	Biotech & Pharmaceuticals	\$1 billion (US)
951	951	Senior Data Engineer	\$72K-\$133K (Glassdoor est.)	THE CHALLENGE\nEventbrite has a world-class da...	4.4	Eventbrite\n4.4	Nashville, TN	San Francisco, CA	1001 to 5000 employees	2006	Company - Public	Internet	Information Technology	\$100m (US)
952	952	Project Scientist - Auton Lab, Robotics Institute	\$56K-\$91K (Glassdoor est.)	The Auton Lab at Carnegie Mellon University is...	2.6	Software Engineering Institute\n2.6	Pittsburgh, PA	Pittsburgh, PA	501 to 1000 employees	1984	College / University	Colleges & Universities	Education	Unknown / I Applic
953	953	Data Science Manager	\$95K-\$160K (Glassdoor est.)	Data Science ManagerResponsibilities:\n\nOvers...	3.2	Numeric, LLC\n3.2	Allentown, PA	Chadds Ford, PA	1 to 50 employees	-1	Company - Private	Staffing & Outsourcing	Business Services	\$5 to 10m (US)
955	955	Research Scientist - Security and	\$61k-\$126k (Glassdoor est.)	Returning Candidate? Log back in to the Career...	3.6	Alvise Research Institute\n3.6	Beavercreek, OH	Arlington, VA	501 to 1000 employees	1967	Nonprofit Organization	Federal Agencies	Government	\$100m (US)

```
salary = Data['Salary Estimate'].apply(lambda x: x.split('(')[0])
salary = salary.apply(lambda x: x.lower().replace('per hour','').replace('employer provided salary:', ''))
salary
```

	Salary Estimate
0	\$53k-\$91k
1	\$63k-\$112k
2	\$80k-\$90k
3	\$56k-\$97k
4	\$86k-\$143k
...	...
950	\$58k-\$111k
951	\$72k-\$133k
952	\$56k-\$91k
953	\$95k-\$160k
955	\$61k-\$126k

732 rows x 1 columns

dtype: object

Third Step Remove K, k, \$

```
salary = salary.apply(lambda x: x.replace('K','').replace('$','').replace('k',''))
salary
```

Show hidden output

⌵ We need to create two separate column as Min\_Salary and Max\_Salary convert them into integer.

```
Data['min_salary'] = salary.apply(lambda x: int(x.split('-')[0]))
Data['max_salary'] = salary.apply(lambda y: int(y.split('-')[1]))
Data.head(10)
```

	Unnamed: 0	Job Title	Salary Estimate	Job Description	Rating	Company Name	Location	Headquarters	Size	Founded	Type of ownership	Industry	Sector	Revenue	Competitors	
0	0	Data Scientist	\$53K-\$91K (Glassdoor est.)	Data Scientist\nLocation: Albuquerque, NM\nEducation: ...	3.8	Tecolote Research\n3.8	Albuquerque, NM	Goleta, CA	501 to 1000 employees	1973	Company - Private	Aerospace & Defense	Aerospace & Defense	\$50 to \$100 million (USD)	-1	
1	1	Healthcare Data Scientist	\$63K-\$112K (Glassdoor est.)	What You Will Do:\n\nI. General Summary\n\nThe...	3.4	University of Maryland Medical System\n3.4	Linthicum, MD	Baltimore, MD	10000+ employees	1984	Other Organization	Health Care Services & Hospitals	Health Care	\$2 to \$5 billion (USD)	-1	
2	2	Data Scientist	\$80K-\$90K (Glassdoor est.)	KnowBe4, Inc. is a high growth information sec...	4.8	KnowBe4\n4.8	Clearwater, FL	Clearwater, FL	501 to 1000 employees	2010	Company - Private	Security Services	Business Services	\$100 to \$500 million (USD)	-1	
3	3	Data Scientist	\$56K-\$97K (Glassdoor est.)	*Organization and Job ID*\n\nJob ID: 310709\n\n...	3.8	PNNL\n3.8	Richland, WA	Richland, WA	1001 to 5000 employees	1965	Government	Energy	Oil, Gas, Energy & Utilities	\$500 million to \$1 billion (USD)	Oak Ridge National Laboratory, National Renewa...	
4	4	Data Scientist	\$86K-\$143K (Glassdoor est.)	Data Scientist\nAffinity Solutions / Marketing...	2.9	Affinity Solutions\n2.9	New York, NY	New York, NY	51 to 200 employees	1998	Company - Private	Advertising & Marketing	Business Services	Unknown / Non-Applicable	Commerce Signals, Cardlytics, Yodlee	
5	5	Data Scientist	\$71K-\$119K (Glassdoor est.)	CyrusOne is seeking a talented Data Scientist ...	3.4	CyrusOne\n3.4	Dallas, TX	Dallas, TX	201 to 500 employees	2000	Company - Public	Real Estate	Real Estate	\$1 to \$2 billion (USD)	Digital Realty, CoreSite, Equinix	
6	6	Data Scientist	\$54K-\$93K (Glassdoor est.)	Job Description\n\n**Please only local candida...	4.1	ClearOne Advantage\n4.1	Baltimore, MD	Baltimore, MD	501 to 1000 employees	2008	Company - Private	Banks & Credit Unions	Finance	Unknown / Non-Applicable	-1	
7	7	Data Scientist	\$86K-\$142K (Glassdoor est.)	Advanced Analytics – Lead Data Scientist\nOver...	3.8	Logic20/20\n3.8	San Jose, CA	Seattle, WA	201 to 500 employees	2005	Company - Private	Consulting	Business Services	\$25 to \$50 million (USD)	-1	
8	8	Research Scientist	\$38K-\$84K (Glassdoor est.)	SUMMARY\n\nThe Research Scientist I will be ta...	3.3	Rochester Regional Health\n3.3	Rochester, NY	Rochester, NY	10000+ employees	2014	Hospital	Health Care Services & Hospitals	Health Care	\$500 million to \$1 billion (USD)	-1	
9	9	Data Scientist	\$120K-\$160K (Glassdoor est.)	isn't your usual company. Our work is powered ...	4.6	<intent>\n4.6	New York, NY	New York, NY	51 to 200 employees	2009	Company - Private	Internet	Information Technology	\$100 to \$500 million (USD)	Clicktripz, SmarterTravel	

```
Data['avg_salary'] = (Data['min_salary']+ Data['max_salary'])*0.5
```

	Unnamed: 0	Job Title	Salary Estimate	Job Description	Rating	Company Name	Location	Headquarters	Size	Founded	Type of ownership	Industry	Sector	Revenue	Competitors	min_sa
0	0	Data Scientist	\$53K-\$91K (Glassdoor est.)	Data Scientist\nLocation: Albuquerque, NM\nEducation: ...	3.8	Tecolote Research\n3.8	Albuquerque, NM	Goleta, CA	501 to 1000 employees	1973	Company - Private	Aerospace & Defense	Aerospace & Defense	\$50 to \$100 million (USD)	-1	
1	1	Healthcare Data Scientist	\$63K-\$112K (Glassdoor est.)	What You Will Do:\n\nI. General Summary\n\nThe...	3.4	University of Maryland Medical System\n3.4	Linthicum, MD	Baltimore, MD	10000+ employees	1984	Other Organization	Health Care Services & Hospitals	Health Care	\$2 to \$5 billion (USD)	-1	
2	2	Data Scientist	\$80K-\$90K (Glassdoor est.)	KnowBe4, Inc. is a high growth information sec...	4.8	KnowBe4\n4.8	Clearwater, FL	Clearwater, FL	501 to 1000 employees	2010	Company - Private	Security Services	Business Services	\$100 to \$500 million (USD)	-1	
3	3	Data Scientist	\$56K-\$97K (Glassdoor est.)	*Organization and Job ID*\n\nJob ID: 310709\n\n...	3.8	PNNL\n3.8	Richland, WA	Richland, WA	1001 to 5000 employees	1965	Government	Energy	Oil, Gas, Energy & Utilities	\$500 million to \$1 billion (USD)	Oak Ridge National Laboratory, National Renewa...	
4	4	Data Scientist	\$86K-\$143K (Glassdoor est.)	Data Scientist\nAffinity Solutions / Marketing...	2.9	Affinity Solutions\n2.9	New York, NY	New York, NY	51 to 200 employees	1998	Company - Private	Advertising & Marketing	Business Services	Unknown / Non-Applicable	Commerce Signals, Cardlytics, Yodlee	

⌵ Below We can see that different type of jobs are listed in data.

```
# Group by Job Title
salary_stats = Data.groupby('Job Title')['avg_salary'].describe()
print(salary_stats)
```

	count	mean	std	min	\
Job Title					
Ag Data Scientist	1.0	80.5	NaN	80.5	
Analytics – Business Assurance Data Analyst	2.0	43.0	0.0	43.0	
Analytics Consultant	1.0	66.5	NaN	66.5	
Analytics Manager	2.0	87.5	0.0	87.5	
Analytics Manager – Data Mart	4.0	64.0	0.0	64.0	
...	...	...	...	...	
System and Data Analyst	1.0	59.0	NaN	59.0	
Systems Engineer II – Data Analyst	2.0	62.5	0.0	62.5	
Technology-Minded, Data Professional Opportunities	2.0	70.5	0.0	70.5	
VP, Data Science	2.0	124.5	0.0	124.5	
Web Data Analyst	1.0	106.0	NaN	106.0	
	25%	50%	75%	max	
Job Title					
Ag Data Scientist	80.5	80.5	80.5	80.5	
Analytics – Business Assurance Data Analyst	43.0	43.0	43.0	43.0	



Analytics Consultant	66.5	66.5	66.5	66.5
Analytics Manager	87.5	87.5	87.5	87.5
Analytics Manager – Data Mart	64.0	64.0	64.0	64.0
...	...	...	...	...
System and Data Analyst	59.0	59.0	59.0	59.0
Systems Engineer II – Data Analyst	62.5	62.5	62.5	62.5
Technology-Minded, Data Professional Opportunities	70.5	70.5	70.5	70.5
VP, Data Science	124.5	124.5	124.5	124.5
Web Data Analyst	106.0	106.0	106.0	106.0

[260 rows x 8 columns]

Now we have to group all "common job title" such as 'Data Analyst', 'Data Science', 'Data engineer', 'DevOps Engineer' etc.

```
def map_role(title):
    if 'scientist' in title.lower():
        return 'Data Scientist'
    elif 'engineer' in title.lower():
        return 'Data Engineer'
    elif 'ops' in title.lower():
        return 'DevOps engineer'
    elif 'analyst' in title.lower():
        return 'Data Analyst'
    elif 'machine learning' in title.lower():
        return 'ML engineer'
    else:
        return 'Others'
Data['Job Role'] = Data['Job Title'].apply(map_role)
Data
```

	Unnamed: 0	Job Title	Salary Estimate	Job Description	Rating	Company Name	Location	Headquarters	Size	Founded	Type of ownership	Industry	Sector	Revenue
0	0	Data Scientist	\$53K-\$91K (Glassdoor est.)	Data Scientist\nLocation: Albuquerque, NM\nEducation: ...	3.8	Tecolote Research\n3.8	Albuquerque, NM	Goleta, CA	501 to 1000 employees	1973	Company - Private	Aerospace & Defense	Aerospace & Defense	\$1.5 b (L)
1	1	Healthcare Data Scientist	\$63K-\$112K (Glassdoor est.)	What You Will Do:\n\nI. General Summary\n\nThe...	3.4	University of Maryland Medical System\n3.4	Linthicum, MD	Baltimore, MD	10000+ employees	1984	Other Organization	Health Care Services & Hospitals	Health Care	\$2.1 b (L)
2	2	Data Scientist	\$80K-\$90K (Glassdoor est.)	KnowBe4, Inc. is a high growth information sec...	4.8	KnowBe4\n4.8	Clearwater, FL	Clearwater, FL	501 to 1000 employees	2010	Company - Private	Security Services	Business Services	\$100 m (L)
3	3	Data Scientist	\$56K-\$97K (Glassdoor est.)	*Organization and Job ID*\nJob ID: 310709\n\n...	3.8	PNNL\n3.8	Richland, WA	Richland, WA	1001 to 5000 employees	1965	Government	Energy	Oil, Gas, Energy & Utilities	\$1 billion (L)
4	4	Data Scientist	\$86K-\$143K (Glassdoor est.)	Data Scientist\nAffinity Solutions / Marketing...	2.9	Affinity Solutions\n2.9	New York, NY	New York, NY	51 to 200 employees	1998	Company - Private	Advertising & Marketing	Business Services	Unk / Applic
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
950	950	Sr Scientist, Immunology - Oncology	\$58K-\$111K (Glassdoor est.)	Site Name: USA - Massachusetts - Cambridge\nPo...	3.9	GSK\n3.9	Cambridge, MA	Brentford, United Kingdom	10000+ employees	1830	Company - Public	Biotech & Pharmaceuticals	Biotech & Pharmaceuticals	\$1.5 b (L)
951	951	Senior Data Engineer	\$72K-\$133K (Glassdoor est.)	THE CHALLENGE\nEventbrite has a world-class da...	4.4	Eventbrite\n4.4	Nashville, TN	San Francisco, CA	1001 to 5000 employees	2006	Company - Public	Internet	Information Technology	\$100 m (L)
952	952	Project Scientist - Auton Lab, Robotics Institute	\$56K-\$91K (Glassdoor est.)	The Auton Lab at Carnegie Mellon University is...	2.6	Software Engineering Institute\n2.6	Pittsburgh, PA	Pittsburgh, PA	501 to 1000 employees	1984	College / University	Colleges & Universities	Education	Unk / Applic
953	953	Data Science Manager	\$95K-\$160K (Glassdoor est.)	Data Science ManagerResponsibilities:\n\nOver...	3.2	Numeric, LLC\n3.2	Allentown, PA	Chadds Ford, PA	1 to 50 employees	-1	Company - Private	Staffing & Outsourcing	Business Services	\$5 to m (L)
955	955	Research Scientist – Security and Privacy	\$61K-\$126K (Glassdoor est.)	Returning Candidate? Log back in to the Career...	3.6	Riverside Research Institute\n3.6	Beavercreek, OH	Arlington, VA	501 to 1000 employees	1967	Nonprofit Organization	Federal Agencies	Government	\$1.5 m (L)

732 rows x 20 columns

### Average Salary by Job Role Bar Chart

```
# Group by Job Role and calculate average salary
salary_stats = Data.groupby('Job Role')['avg_salary'].max().reset_index()
print(salary_stats)

# Create bar chart
fig = px.bar(salary_stats, y='avg_salary', x='Job Role', text='avg_salary')
fig.update_traces(texttemplate='${text:.0f}K', textposition='outside')

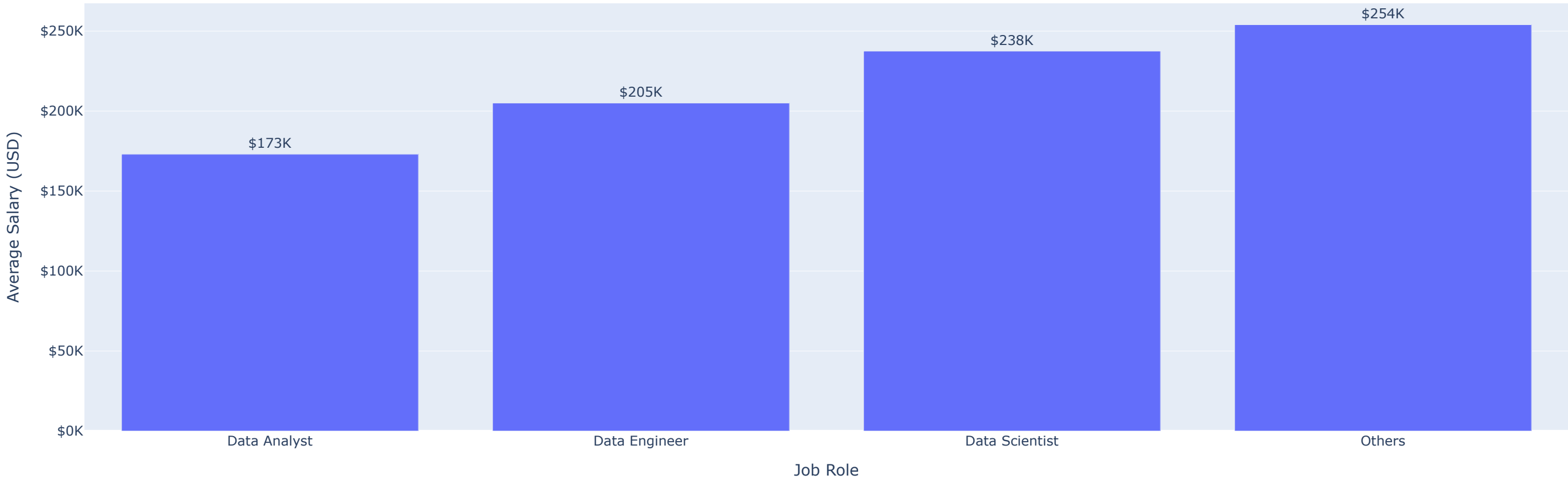
# Customize layout
fig.update_layout(
    title='Average Salary by Job Role',
    title_font_size=30,
    yaxis_tickprefix='$',
    yaxis_ticksuffix='K',
    yaxis_tickformat=',',
    xaxis_title='Job Role',
    yaxis_title='Average Salary (USD)'
)

fig.show()
```



	Job Role	avg_salary
0	Data Analyst	173.0
1	Data Engineer	205.0
2	Data Scientist	237.5
3	Others	254.0

Average Salary by Job Role



▼ Average Salary by Company Size Bar Chart

```
# Group by Size and calculate average salary
company_stats = Data.groupby('Size')['avg_salary'].max().reset_index()
print(company_stats)

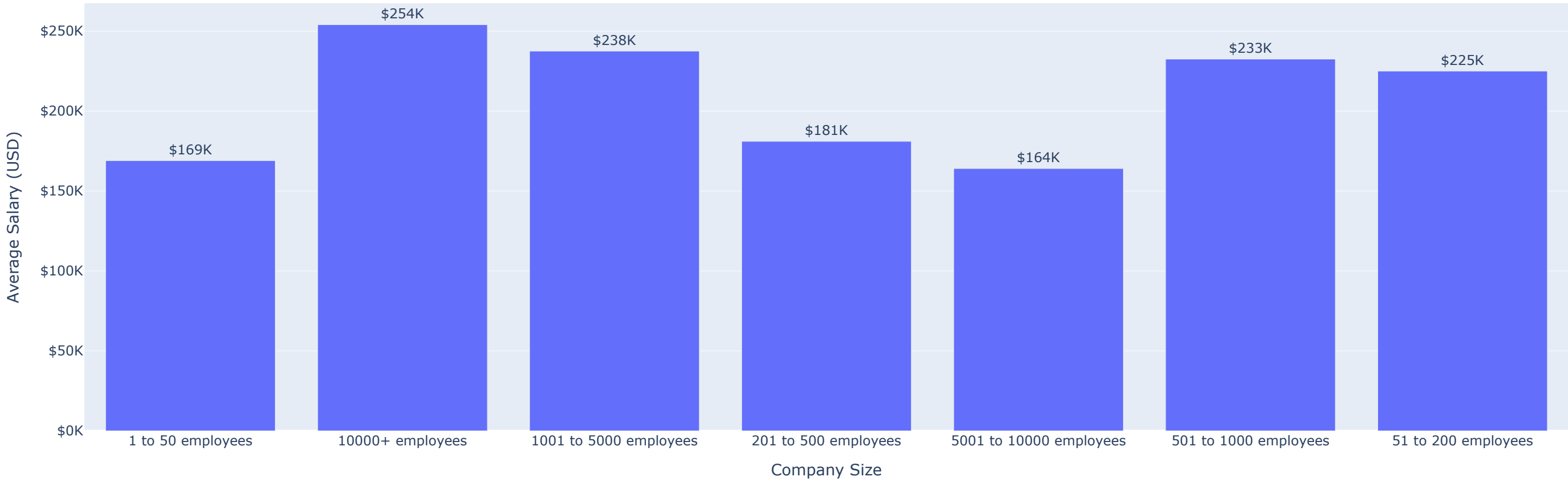
# Create bar chart
fig = px.bar(company_stats,y='avg_salary', x='Size', text = 'avg_salary')
fig.update_traces(texttemplate = '$%{text:,.0f}K',textposition='outside')
# Customize layout
fig.update_layout(title='Average Salary by Company Size',
                  title_font_size = 30,
                  yaxis_tickprefix = '$',
                  yaxis_ticksuffix='K',
                  yaxis_tickformat =',',
                  xaxis_title='Company Size',
                  yaxis_title='Average Salary (USD)')

fig.show()
```



	Size	avg_salary
0	1 to 50 employees	169.0
1	10000+ employees	254.0
2	1001 to 5000 employees	237.5
3	201 to 500 employees	181.0
4	5001 to 10000 employees	164.0
5	501 to 1000 employees	232.5
6	51 to 200 employees	225.0

Average Salary by Company Size



▼ As we can see that below the Location data have two name with comma. We want one name either 0th index (New York) or 1st indext(NY).

```
Data['Location']
```



	Location
0	Albuquerque, NM
1	Linthicum, MD
2	Clearwater, FL
3	Richland, WA
4	New York, NY
...	...
950	Cambridge, MA
951	Nashville, TN
952	Pittsburgh, PA
953	Allentown, PA
955	Beavercreek, OH

732 rows × 1 columns

**dtype:** object

```
Data['location'] = Data['Location'].apply(lambda x: x.split(',')[0])
Data['location'].value_counts()
```



	count
location	
New York	54
San Francisco	49
Cambridge	41
Chicago	32
Boston	23
...	...
Milpitas	1
Watertown	1
Irvine	1
Ann Arbor	1
Olympia	1

195 rows × 1 columns

**dtype:** int64

Jobs Vacancies are

▼ Average Salary by Location Bar Chart

```
# Group by Job Role and calculate average salary
location_stats =(Data.groupby('location')
    .agg(avg_salary=('avg_salary', 'max'), job_count=('avg_salary', 'count'))
    .reset_index()
    .sort_values(by='job_count',ascending=False)
    .head(15))
# now create Bar Plot
fig = px.bar(location_stats,
             y='avg_salary',
             x='location',
             text='avg_salary',
             hover_data=['job_count'])
fig.update_traces(texttemplate='%{text:.0f}K', textposition='outside')

# Customize layout
fig.update_layout(title='Average Salary by Location',
                  title_font_size=30,
                  yaxis_tickprefix='$',
                  yaxis_ticksuffix='K',
                  yaxis_tickformat=',',
                  xaxis_title='Location',
                  yaxis_title='Average Salary (USD)')


fig.show()
```



# Average Salary by Location



```
print("End of Analysis")
```

 End of Analysis

Start coding or [generate](#) with AI.