

Data Professional Salary Analytics

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(Portfolio Project)



Logo
Name

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1. Introduction

- **Analytics is the systematic computational analysis of data or statistics. It is used for the discovery, interpretation, and communication of meaningful patterns in data. It also entails applying data patterns toward effective decision-making. It can be valuable in areas rich with recorded information; analytics relies on the simultaneous application of statistics, computer programming, and operations research to quantify performance.**
- **Organizations may apply analytics to business data to describe, predict, and improve business performance. Specifically, areas within analytics include predictive analytics, prescriptive analytics, enterprise decision management, descriptive analytics, cognitive analytics, Big Data Analytics, retail analytics, supply chain analytics, store assortment and stock-keeping unit optimization, marketing optimization and marketing mix modeling, web analytics, call analytics, speech analytics, sales force sizing and optimization, price and promotion modeling, predictive science, graph analytics, credit risk analysis, and fraud analytics. Since analytics can require extensive computation (see big data), the algorithms and software used for analytics harness the most current methods in computer science, statistics, and mathematics.**
- **This Dataset consists of salaries for Data Scientists, Machine Learning Engineers, Data Analysts, and Data Engineers in various cities across India (2022).**

2. Abstract of the Project

- To perform Data Cleaning through Excel by Using Dax Functions.
- To Perform Data Analysis below mentioned through Excel and get some Insights from the Dataset.
 - 1) Average Salar of Overall Data Professionals.
 - 2) Average Salary by Location.
 - 3) Average Salary by Company.
 - 4) Average Salary by Job Title.
 - 5) Salary Reported by Company.

3. Tools or Softwares Used:

- Tools used for this project was Excel.

4. Data Pre-Processing:

- Filter Currency like \$ dollar and £ pounds value.

Company Name	Job Title	Domain Title	Salaries Reported	Location	Salary	Per Yr/mo	SalaryCleaned	SalaryTran
Mu Sigma	Data Scientist	Data Science				yr	648573	
IBM	Data Scientist	Data Science				yr	1191950	
Tata Consultancy Services	Data Scientist	Data Science				yr	836874	
Impact Analytics	Data Scientist	Data Science				yr	669578	
Accenture	Data Scientist	Data Science				yr	944110	
Infosys	Data Scientist	Data Science				yr	908764	
Capgemini	Data Scientist	Data Science				yr	926124	
Cognizant Technology Solutions	Data Scientist	Data Science				yr	736708	
Anheuser-Busch InBev	Data Scientist	Data Science				yr	1646721	
Fractal	Data Scientist	Data Science				yr	1392960	
Emblibe	Data Scientist	Data Science				yr	1404773	
Amazon	Data Scientist	Data Science				yr	1507343	
Google	Data Scientist	Data Science				yr	1558095	
Flipkart	Data Scientist	Data Science				yr	2557843	
HP Inc.	Data Scientist	Data Science				yr	1510081	
Wipro	Data Scientist	Data Science				yr	732821	
Ericsson-Worldwide	Data Scientist	Data Science				yr	1221750	
MIQ	Data Scientist	Data Science				yr	1739484	
Deloitte	Data Scientist	Data Science				yr	1124939	
Microsoft	Data Scientist	Data Science				yr	1630396	
Genpact	Data Scientist	Data Science				yr	1009436	
Fresher	Data Scientist	Data Science				yr	550980	
Société Générale	Data Scientist	Data Science				yr	1870000	
Flutura	Data Scientist	Data Science				yr	758376	

- Separated Currency and Per (“/yr”, “/mo”, “/hr”).

Job Title	Domain Title	Salaries Reported	Location	Salary	Per Yr/mo	SalaryCleaned
Data Scientist	Data Science	105	Bangalore	₹6,48,573/yr	yr	
Data Scientist	Data Science	95	Bangalore	₹11,91,950/yr	yr	
Data Scientist	Data Science	66	Bangalore	₹8,36,874/yr	yr	
Data Scientist	Data Science	40	Bangalore	₹6,69,578/yr	yr	
Data Scientist	Data Science	32	Bangalore	₹9,44,110/yr	yr	
Data Scientist	Data Science	30	Bangalore	₹9,08,764/yr	yr	
Data Scientist	Data Science	28	Bangalore	₹9,26,124/yr	yr	
Data Scientist	Data Science	26	Bangalore	₹7,36,708/yr	yr	
Data Scientist	Data Science	25	Bangalore	₹16,46,721/yr	yr	
Data Scientist	Data Science	22	Bangalore	₹13,92,960/yr	yr	
Data Scientist	Data Science	20	Bangalore	₹14,04,773/yr	yr	
Data Scientist	Data Science	19	Bangalore	₹15,07,343/yr	yr	
Data Scientist	Data Science	19	Bangalore	₹15,58,095/yr	yr	
Data Scientist	Data Science	18	Bangalore	₹25,57,843/yr	yr	
Data Scientist	Data Science	16	Bangalore	₹15,10,081/yr	yr	
Data Scientist	Data Science	15	Bangalore	₹7,32,821/yr	yr	
Data Scientist	Data Science	15	Bangalore	₹12,21,750/yr	yr	
Data Scientist	Data Science	15	Bangalore	₹17,39,484/yr	yr	
Data Scientist	Data Science	14	Bangalore	₹11,24,939/yr	yr	
Data Scientist	Data Science	14	Bangalore	₹16,30,396/yr	yr	

- **Substitute Currency Column and made Numeric.**

Excel ribbon: Insert, Page Layout, Formulas, Data, Review, View, Help, Power Pivot, Table Design, Query

Font:Calibri, 11, Bold, Italic, Underline, Color, Background Color, Text Color, Text Background Color, Text Direction, Merge & Center, Wrap Text

Alignment:Left, Center, Right, Indent, Decrease Indent, Increase Indent, Merge & Center, Wrap Text

Number:General, Number, Currency, Percentage, Fraction, Decimals, Thousands Separator, Comma Separator, Negative numbers, Date, Time, Text, Error, Custom, More Numbering Options

Styles:Conditional Formatting, Format as Table, Cell Styles, Insert, Delete, Format

Formula Bar: =VALUE(SUBSTITUTE(SUBSTITUTE(SUBSTITUTE(SUBSTITUTE([@Salary],"/hr",""),"/mo",""),"/yr",""),"₹",""))

Domain Title	Salaries Reported	Location	Salary	Per Yr/mo	SalaryCleansed	SalaryTra
Data Science	105	Bangalore	₹6,48,573/yr	yr	648573	
Data Science	95	Bangalore	₹11,91,950/yr	yr	1191950	
Data Science	66	Bangalore	₹8,36,874/yr	yr	836874	
Data Science	40	Bangalore	₹6,69,578/yr	yr	669578	
Data Science	32	Bangalore	₹9,44,110/yr	yr	944110	
Data Science	30	Bangalore	₹9,08,764/yr	yr	908764	
Data Science	28	Bangalore	₹9,26,124/yr	yr	926124	
Data Science	26	Bangalore	₹7,36,708/yr	yr	736708	
Data Science	25	Bangalore	₹16,46,721/yr	yr	1646721	
Data Science	22	Bangalore	₹13,92,960/yr	yr	1392960	
Data Science	20	Bangalore	₹14,04,773/yr	yr	1404773	
Data Science	19	Bangalore	₹15,07,343/yr	yr	1507343	

- **Transformed Currency Column.**

Excel ribbon: Insert, Page Layout, Formulas, Data, Review, View, Help, Power Pivot, Table Design, Query

Font:Calibri, 11, Bold, Italic, Underline, Color, Background Color, Text Color, Text Background Color, Text Direction, Merge & Center, Wrap Text

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Styles:Conditional Formatting, Format as Table, Cell Styles, Insert, Delete, Format

Formula Bar: =IF(G2="mo", H2*12, IF(G2="hr", H2*8760, H2))

Domain Title	Salaries Reported	Location	Salary	Per Yr/mo	SalaryCleansed	SalaryTransformed
Data Science	105	Bangalore	₹6,48,573/yr	yr	648573	₹ 6,48,573
Data Science	95	Bangalore	₹11,91,950/yr	yr	1191950	₹ 11,91,950
Data Science	66	Bangalore	₹8,36,874/yr	yr	836874	₹ 8,36,874
Data Science	40	Bangalore	₹6,69,578/yr	yr	669578	₹ 6,69,578
Data Science	32	Bangalore	₹9,44,110/yr	yr	944110	₹ 9,44,110
Data Science	30	Bangalore	₹9,08,764/yr	yr	908764	₹ 9,08,764
Data Science	28	Bangalore	₹9,26,124/yr	yr	926124	₹ 9,26,124
Data Science	26	Bangalore	₹7,36,708/yr	yr	736708	₹ 7,36,708
Data Science	25	Bangalore	₹16,46,721/yr	yr	1646721	₹ 16,46,721
Data Science	22	Bangalore	₹13,92,960/yr	yr	1392960	₹ 13,92,960
Data Science	20	Bangalore	₹14,04,773/yr	yr	1404773	₹ 14,04,773
Data Science	19	Bangalore	₹15,07,343/yr	yr	1507343	₹ 15,07,343
Data Science	19	Bangalore	₹15,58,095/yr	yr	1558095	₹ 15,58,095
Data Science	18	Bangalore	₹25,57,843/yr	yr	2557843	₹ 25,57,843

- **Added a New Cell Called Domain Title.**

KPI Discussion				KPI Discussion				KPI Discussion			
1	SalaryCleansed	SalaryTransformed									
2	648573	₹ 6,48,573									
3	1191950	₹ 11,91,950									
4	836874	₹ 8,36,874									
5	669578	₹ 6,69,578									
6	944110	₹ 9,44,110									
7	908764	₹ 9,08,764									
8	926124	₹ 9,26,124									
9	736708	₹ 7,36,708									
10	1646721	₹ 16,46,721									
11	1392960	₹ 13,92,960									
12	1404773	₹ 14,04,773									
13	1507343	₹ 15,07,343									
14	1558095	₹ 15,58,095									
15	2557843	₹ 25,57,843									
16	1510081	₹ 15,10,081									
17	732821	₹ 7,32,821									
18	1221750	₹ 12,21,750									
19	1739484	₹ 17,39,484									
20	1124939	₹ 11,24,939									
21	1630396	₹ 16,30,396									
22	1009436	₹ 10,09,436									
23	550980	₹ 5,50,980									
24	1870000	₹ 18,70,000									
25	758376	₹ 7,58,376									
26	1556575	₹ 15,56,575									
27	1194327	₹ 11,94,327									
28	1470000	₹ 14,70,000									
29	1540947	₹ 15,40,947									

- Added the Domain Title into the Table using XLOOKUP Function.

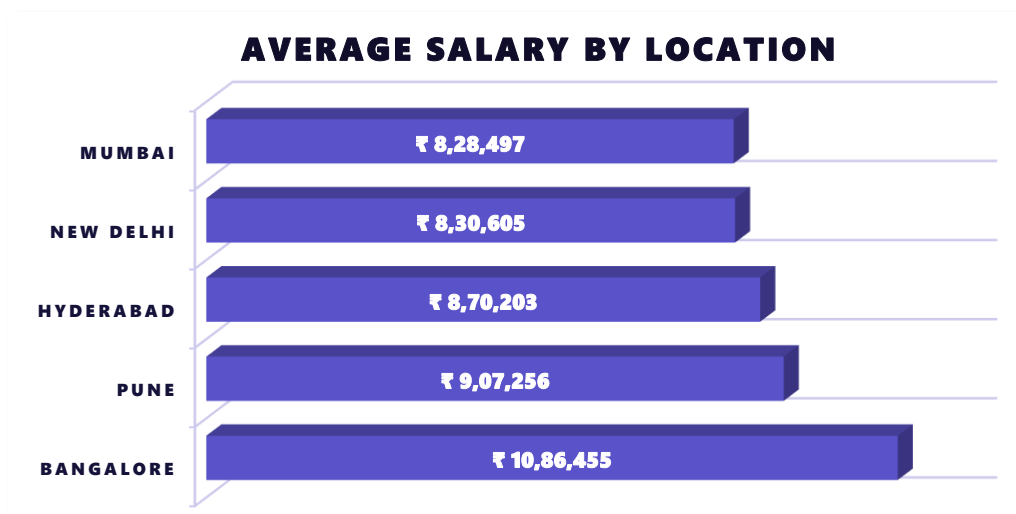
Table Design					Query				
1	Company Name	Job Title	Domain Title	Salaries Reported	Location				
2	Mu Sigma	Data Scientist	Data Science	105	Bangalore				
3	IBM	Data Scientist	Data Science	95	Bangalore				
4	Tata Consultancy Services	Data Scientist	Data Science	66	Bangalore				
5	Impact Analytics	Data Scientist	Data Science	40	Bangalore				
6	Accenture	Data Scientist	Data Science	32	Bangalore				
7	Infosys	Data Scientist	Data Science	30	Bangalore				
8	Capgemini	Data Scientist	Data Science	28	Bangalore				
9	Cognizant Technology Solutions	Data Scientist	Data Science	26	Bangalore				
10	Anheuser-Busch InBev	Data Scientist	Data Science	25	Bangalore				
11	Fractal	Data Scientist	Data Science	22	Bangalore				
12	Embebe	Data Scientist	Data Science	20	Bangalore				
13	Amazon	Data Scientist	Data Science	19	Bangalore				
14	Google	Data Scientist	Data Science	19	Bangalore				
15	Flipkart	Data Scientist	Data Science	18	Bangalore				
16	HP Inc.	Data Scientist	Data Science	16	Bangalore				
17	Wipro	Data Scientist	Data Science	15	Bangalore				
18	Ericsson-Worldwide	Data Scientist	Data Science	15	Bangalore				
19	MiQ	Data Scientist	Data Science	15	Bangalore				
20	Deloitte	Data Scientist	Data Science	14	Bangalore				

5. Data Analysis:

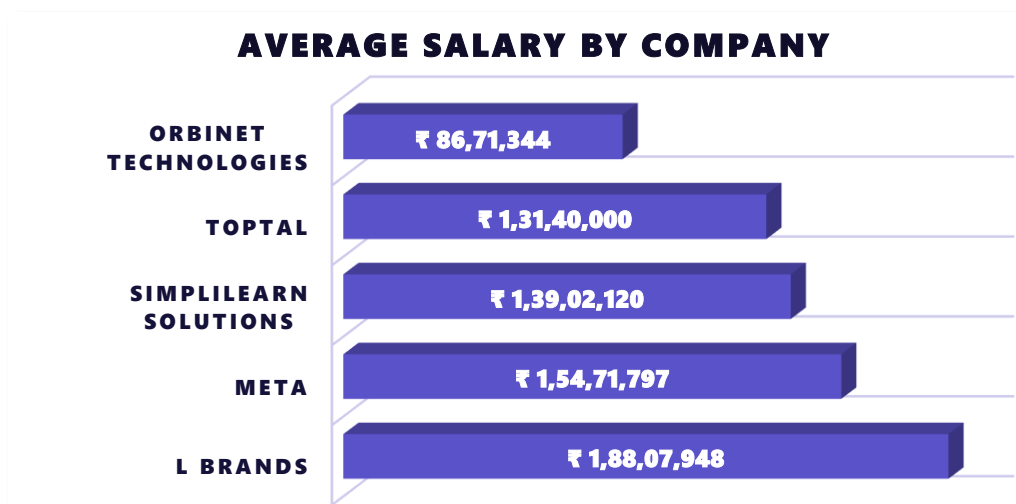
- Average Salary of Overall Data Professionals.



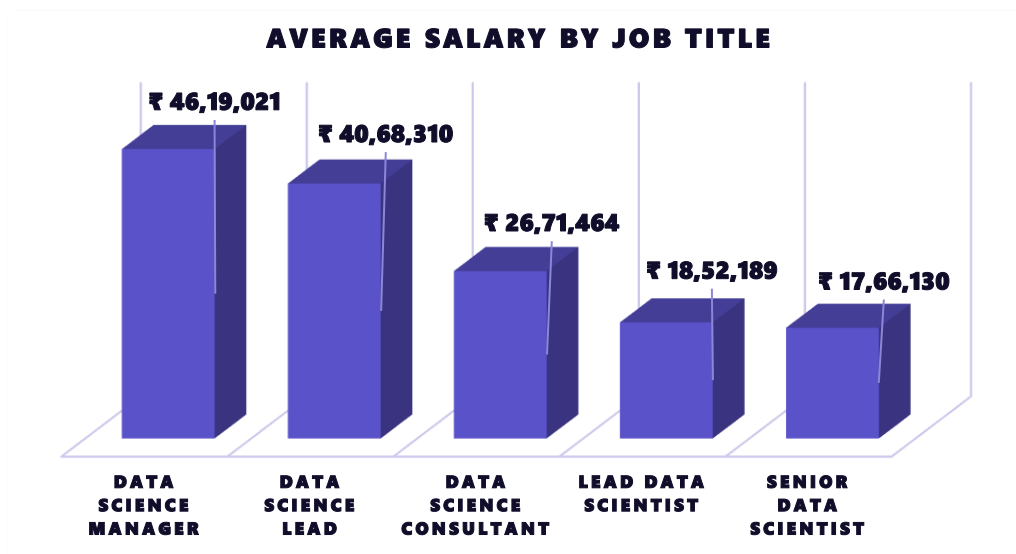
- Average Salary by Location.



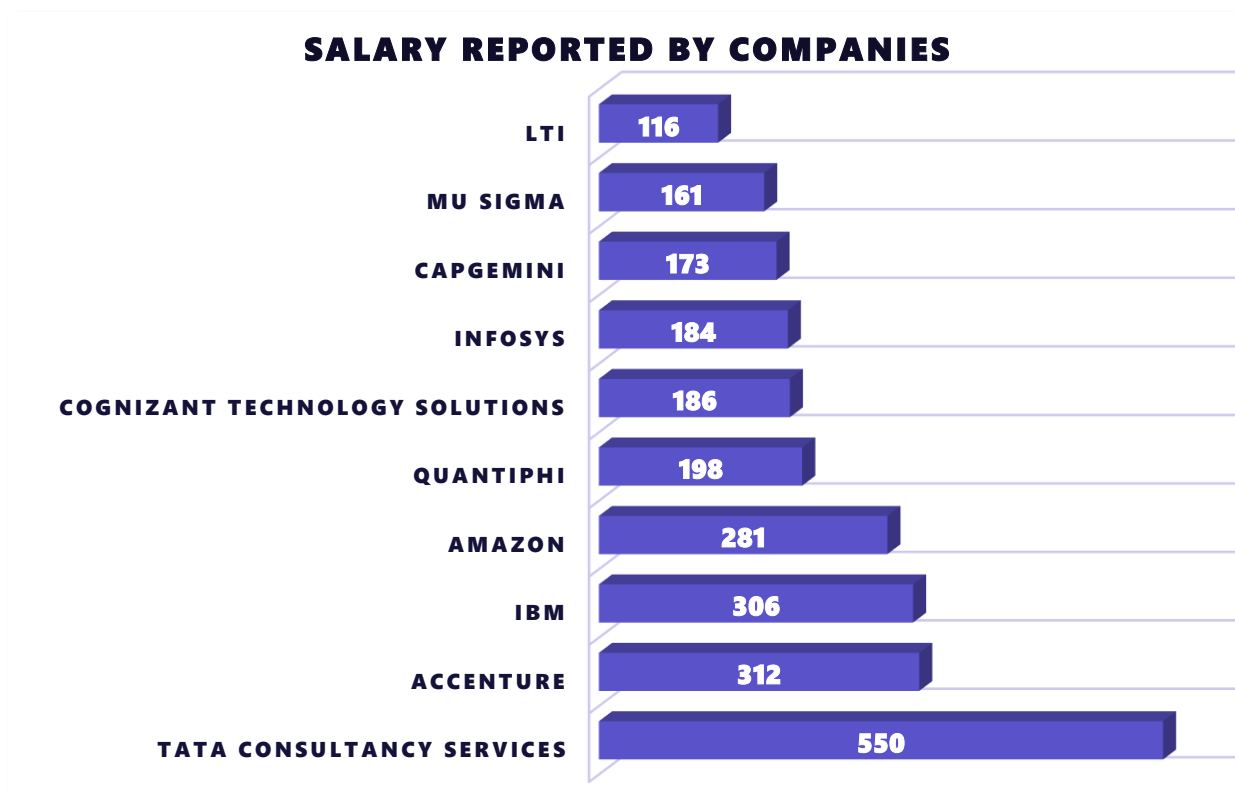
- Average Salary by Company.



- **Average Salary by Job Title.**



- **Salary Reported by Companies.**



- **Filters of Data Professionals.**



6. Final Dashboard:

SALARY ANALYTICS DASHBOARD of DATA PROFESSIONALS

Data Analytics

Data Engineering

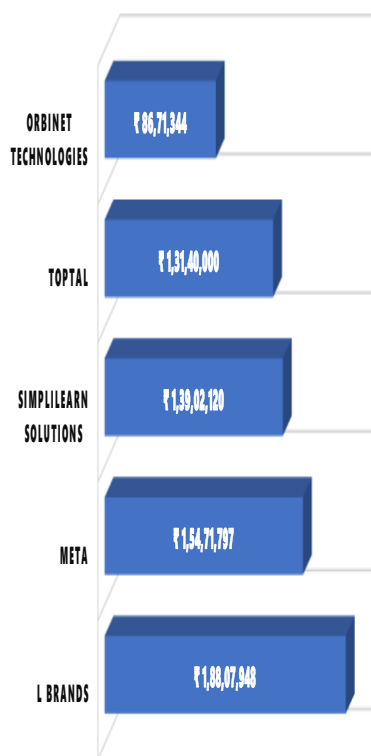
Data Science

Machine Learning

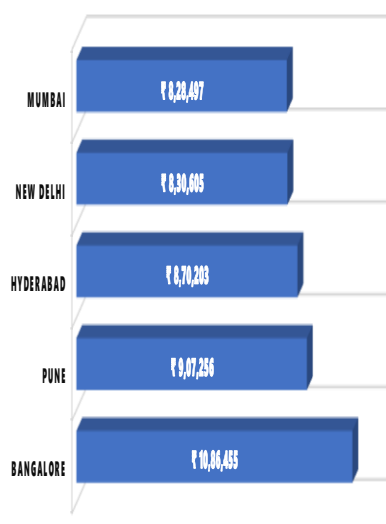
Average Salary

₹ 9,44,412

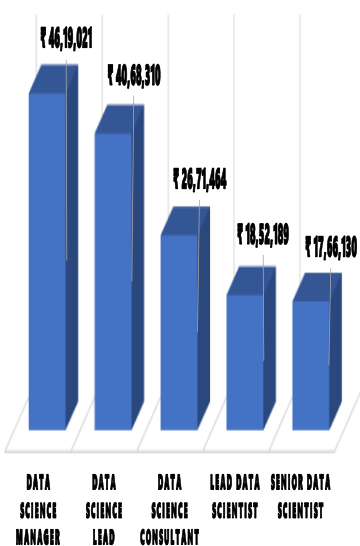
AVERAGE SALARY BY COMPANY



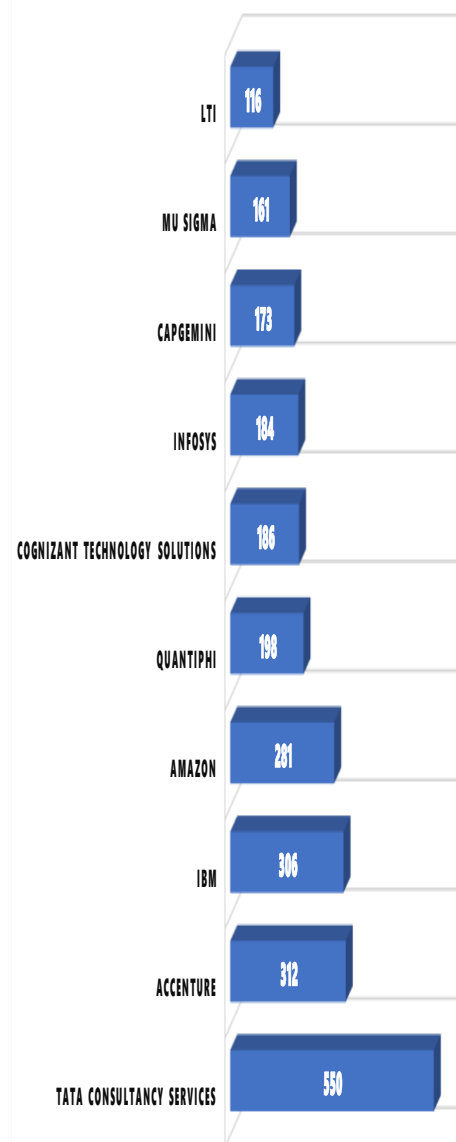
AVERAGE SALARY BY LOCATION



AVERAGE SALARY BY JOB TITLE



SALARY REPORTED BY COMPANIES



7. Conclusion:

- **On a Average Salary of Data Professional of rupees 9,44,412, Data Science Domain has Highest Salary Package, Then comes Data Engineering, Machine Learning and finally Data Analytics.**
- **On Average Salary by Location, Bangalore provides highest Salary Package for the Data Professionals.**
- **On Average Salary by Company, L Brands provides Highest Package for the Data Professionals.**
- **On Average Salary by Job Title among Data Professionals, Data Science Manager gets Highest Salary Package.**
- **Tata Consultant Service has the Maximum Salary Reports.**

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