

Contents

- 1. Introduction
- 2. Methodology
- 3. Data Jobs Demand Analysis
- 4. Salary Analysis
- 5. Conclusions
- 6. References
- Dashboard App



Image Source: https://www.istockphoto.com/es/foto/gr%C3%A1fico-de-cerca-financial-en-la-pantalla-del-ordenador-port%C3%A1til-gm1201802513-344790230

1. Introduction

- With the emergence of the big data, new jobs have appeared demanding new sets of skills and expertise for extracting value from data (Axis Talent, 2020):
- Business Analysts (BA)
- Data Analysts (DA)
- Data Architects (DR)
- Data Engineers (DE)
- Data Scientists (DS)
- Which one is the most valued in the Mexican labor market currently?

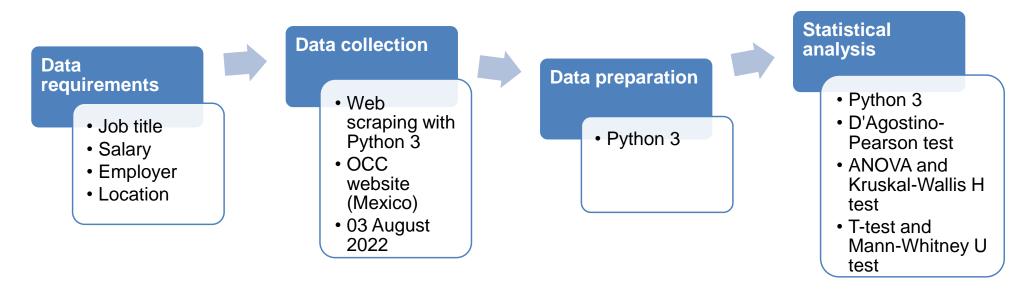


Image Source: https://www.pexels.com/es-es/foto/foto-de-primer-plano-de-la-hoja-de-calculo-de-la-encuesta-590022/

2. Methodology

Research question:

Which data job category has the highest salary in the Mexican labor market in August 2022 according to the OCC website?



Based on Rollins' Foundational Methodology for Data Science (2015).

3. Data Jobs Demand Analysis...

444 data jobs found.

 What is the most demanded data job?
 Data Analyst.

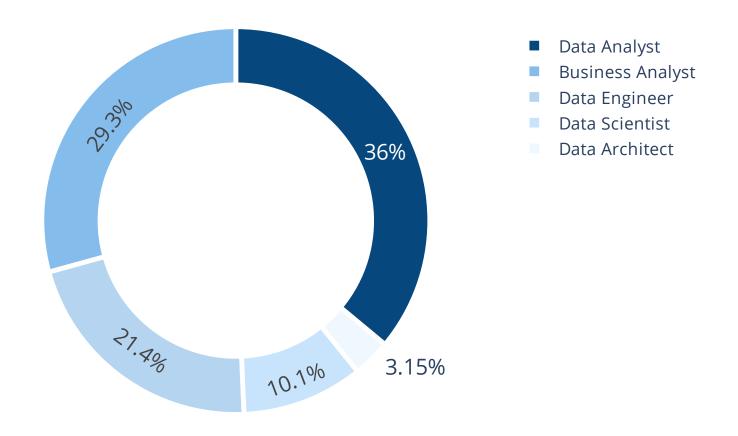


Figure 1. Proportion of vacancies for each data job category in Mexico in August 2022 (own elaboration).

...Data Jobs Demand Analysis...

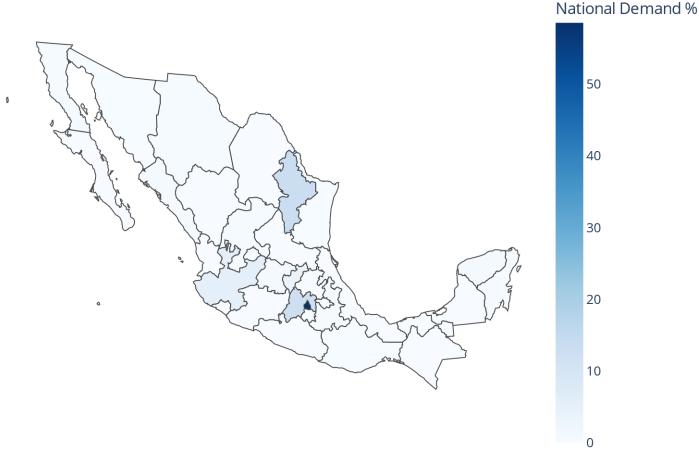


Figure 2. Data jobs demand per state in Mexico in August 2022 (own elaboration).

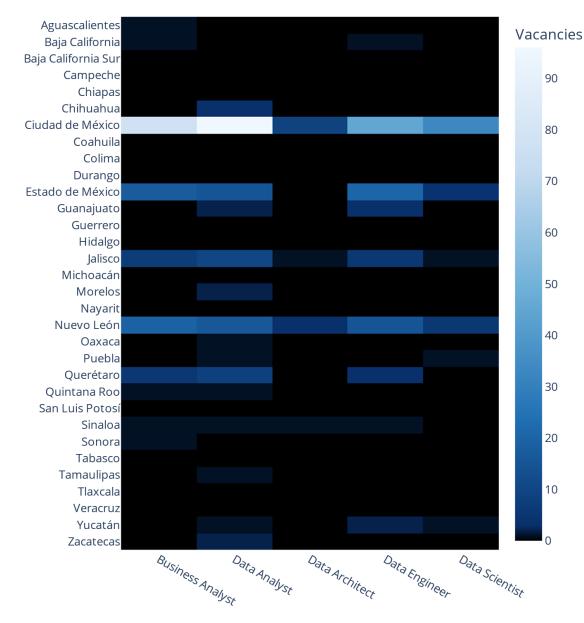
 Where do the most data jobs locate? Ciudad de México.

...Data Jobs Demand Analysis...

 What data job is the most demanded across the locations? Data Analysts, Business Analysts and Data Engineers.

Location

Figure 3. Data jobs demand per category and location in August 2022 (own elaboration).



...Data Jobs Demand Analysis...

What companies demand the most jobs in data?

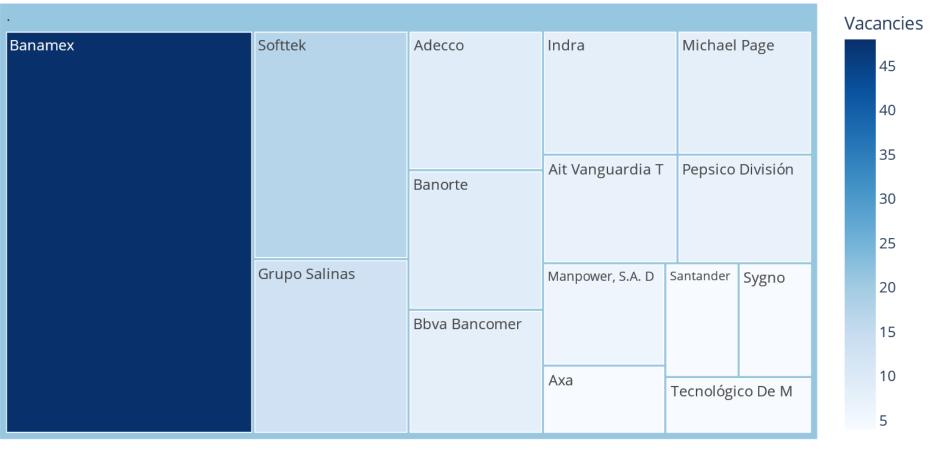
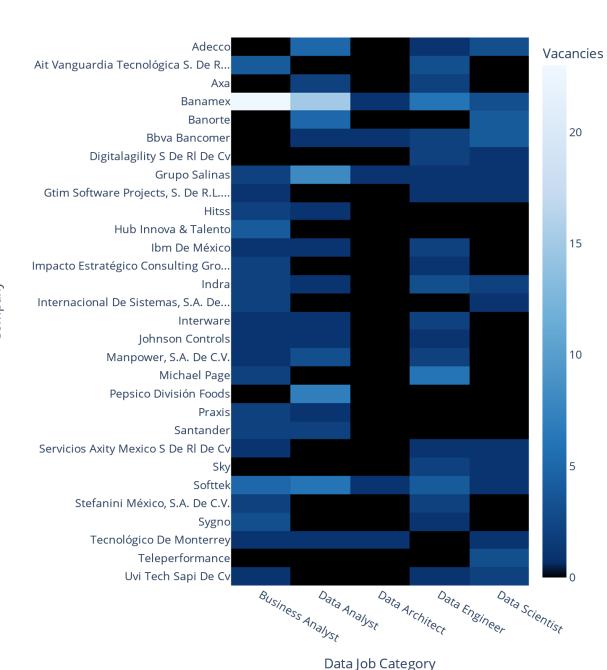


Figure 4. Top 15 companies with the greater demand of data jobs in Mexico in August 2022 (own elaboration).



...Data Jobs Demand Analysis...

 How is the data jobs demand per company? Data Scientist and Data Architect positions are more likely to be found in tech companies and banks.

Figure 5. Data jobs demand per category and company (top 30) in August 2022 (own elaboration).

...Data Jobs Demand Analysis

 Where do companies demanding data jobs locate? Mostly in Ciudad de México, Estado de México and Nuevo León.

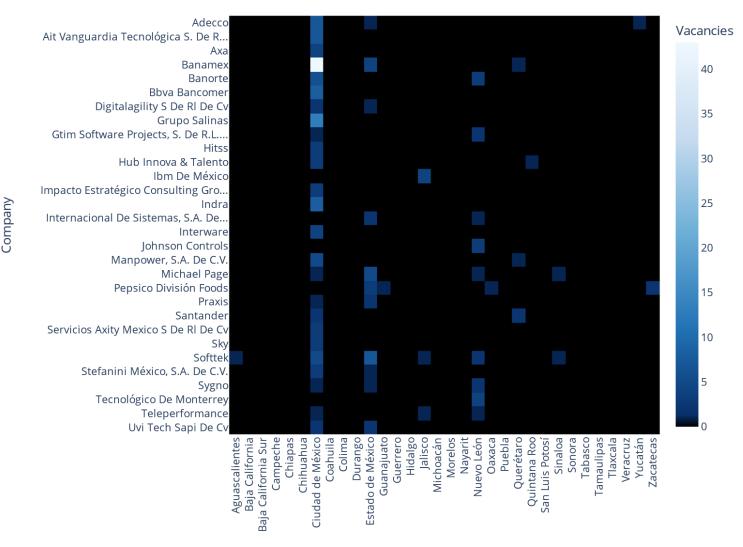


Figure 6. Top 30 companies demanding data jobs per location in August 2022 (own elaboration).

4. Salary Analysis...

Sample of 157 jobs.

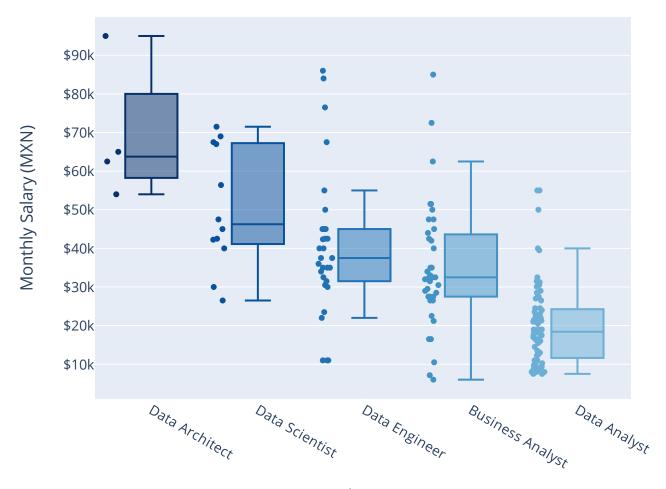
For all data jobs:
 Average salary of
 \$31,179 MXN per
 month.

Non normal distribution.



Figure 7. Histogram of salary distribution of the data jobs in Mexico in August 2022 (own elaboration).

...Salary Analysis...



Which data job category has the highest average salary?
 Data Architect & Data Scientist*

Data Job Category	Average Monthly Salary (MXN)
Data Architect	\$63,750
Data Scientist	\$46,250
Data Engineer	\$37,500
Business Analyst	\$32,500
Data Analyst	\$18,400

Data Job Category

Figure 8. Box plot of salary distributions for each data job category in Mexico in August 2022 (own elaboration).

^{*} Difference in average salaries not statistically significant (p > 0.05).

...Salary Analysis...

Location

 Where are the highest salaries for data jobs? Ciudad de México (\$43,559 MXN in average).



Figure 9. Average salaries for each data job category in Ciudad de México, Estado de México, Nuevo León, and Jalisco in August 2022 (own elaboration).

Zegovia Rh Sa De Cv Noralogic, S. De R.L. De C.V. Trinity Rail De Mexico, S De Rl De... The Brick Soluciones Tecnologicas Sc Axented Digital Communications Sa ... Anzen Soluciones S.A. De C.V. Nityo Infotech Corporation Mexico ... Servicios Enki De Mexico Sapi De Cv Talento Hatchers Sapi De Cv Smart Payment Solutions Sa De Cv Vidanta Atento Servicios, S. A. De C.V. Bcm Bbva Bancomer Hub Innova & Talento P3 Impulsores Estrategicos Ait Vanguardia Tecnológica S. De R... Elettric80 S De RI De Cv Digitalagility S De Rl De Cv Bside Internacional De Sistemas, S.A. De... Dhl Express México S.A. De C.V Prowork Nestlé Servicios Axity Mexico S De RI De Cv Indra Banamex Banorte Adecco Office Depot De México, S.A. De C.V. \$40k \$50k \$60k \$70k \$80k \$90k Average Monthly Salary (MXN)

...Salary Analysis...

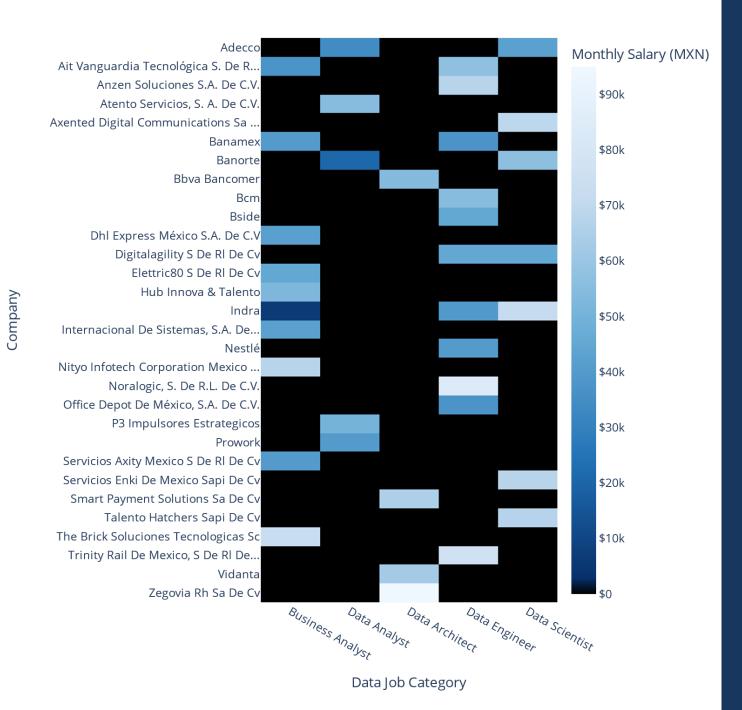
 What companies offer the highest salaries for data jobs?
 Zegovia RH, Noralogic and Trinity Rail de México.

Figure 10. Top 30 companies with the highest average salaries for data jobs in Mexico (own elaboration).

...Salary Analysis

 What companies offer the highest salaries for data jobs per data job category?

Figure 11. Top 30 companies with the highest average salaries by data job category in Mexico in August 2022 (own elaboration).



5. Conclusions...

- Data Architect and Data Scientist are the data job categories with the highest salaries in the Mexican labor market in August 2022 according to the OCC website.
- Data Analyst is the data job category more demanded in the current Mexican labor market and across the different Mexican states, even though it was also the one with the lowest salary.
- Ciudad de México is the place where it is possible to find the highest jobs demand and the highest salaries.

...Conclusions...

- Data Architect and Data Scientist positions are very concentrated in Ciudad de México, Estado de México and Nuevo León, and are most likely to be found in tech companies and banks.
- Data Analyst, Business Analyst, and Data Engineer positions are more demanded across different type of organizations and locations.
- Banamex, Softtek, and Grupo Salinas exhibit the highest demand of data jobs positions; while Zegovia RH, Noralogic, and Trinity Rail de México offer the highest salaries.

... Conclusions

This study had limitations:

- Only used OCC as source of information during a very short period of time (just 03 August 2022).
- Very few salary observations were retrieved for Data Architect and Data Scientist positions.
- Collected data mostly correspond to Ciudad de México, Estado de México, Nuevo León and Jalisco.
- No distinction was made among entry level, middle and senior positions.

Future perspectives:

- Gather data from more job websites.
- Retrieve information for a longer time span.
- Collect more salary observations for Data Architect and Data Scientist positions.
- Collect more salary data for other Mexican states.
- Make a distinction among entry level, middle and senior positions.

6. References

- Axis Talent. (2020). The Ecosystem of Data Jobs Making sense of the Data Job Market. Retrieved from Axis Talent: https://www.axistalent.io/blog/the-ecosystem-of-data-jobs-making-sense-of-the-data-job-market
- Rollins, J. B. (2015). Metodología Fundamental para la Ciencia de Datos.
 Somers: IBM Corporation. Retrieved from https://www.ibm.com/downloads/cas/WKK9DX51

Data Jobs in Mexico Dashboard This Dashboard shows the Data Jobs demand and salaries in Mexico in August 2022. Data was collected on August 3, 2022 from the OCC website Data Job Selection: Demand of Data Jobs Per Category Salary Per Data Job Category × All Location Selection: Data Analyst × All × + Business Analyst Data Engineer Company Selection: Data Scientist Data Architect × All ☐ Enable Salary Range Selection Salary Range Selection (MXN): Data Job Category Top 15 Companies Demanding Data Jobs Demand % Grupo Salinas Michael Page Ait Vanguardia Tecnológia Pepsico División Food: Manpower, S.A. De C.V. Salary Per Company And Data Job Category Salary Per Location And Data Job Category Ait Vanguardia Tecnológica S. De R... Anzen Soluciones S.A. De C.V Baja California Su Atento Servicios, S. A. De C.V. Axented Digital Communications Sa Coahuila Colima Dhl Express México S.A. De C.V. Digitalagility S De RI De Cv Elettric80 S De RI De Cv Hub Innova & Talen Michoacár Navari Noralogic, S. De R.L. De C.V Querétaro P3 Impulsores Estrategicos Quintana Roo San Luis Potosí \$30k Servicios Axity Mexico S De RI De Cv Servicios Enki De Mexico Sapi De Cv \$20k Smart Payment Solutions Sa De Cv Tabasco Tamaulipas Talento Hatchers Sapi De Cv Tlaxcala Trinity Rail De Mexico, S De RI De.. Yucatán

7. Dashboard App

Please check the interactive
 Dashboard App at
 https://github.com/DanielEduardo
 Lopez/DataJobsMX2022

8. Do you want to know more?

Please check the full report at

https://github.com/DanielEduardoLopez/

DataJobsMX2022



Data Jobs Salaries in Mexico in August 2022

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Thank you for your attention!

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