Salaries in the Fields of Data Science, Artificial Intelligence, and Machine Learning

Abhishek Anand, Bolun Lu, Siming Xu, Rijin Lnu

2022-10-17

Abstract

Index Terms / Keywords

Introduction

A shift towards data-centered decision-making is taking hold and at the center of this shift are those working in the fields of data science ("DS"), artificial intelligence ("AI"), and machine learning ("ML"). As businesses seek to optimize operations and information using vastly increased computing power, the shape and size of data analytics has increased exponentially over the last two decades, and even more prominently in the last decade with the rise of machine learning, cloud computing, and advances in the field of artificial intelligence.

Exploring the composition and trends of salaries in this sector is equally as intriguing, both from a research perspective and from the perspective of what can be waiting for students of Data Analytics (DS/AI/ML) in academic programs globally.

The data we've chosen for this project comes from https://salaries.ai-jobs.net/, a website collecting salary data from around the world.

This data set has salary (in USD) for a variety of technical roles, and a variety of information on the characteristics of the employee, employer, the job itself, and the market.

The data set contains the following variables:

Citations and Related Work

Data

Technical Approach

Findings

Conclusion

Future Studies

work_year The year the salary was paid.

experience_level The experience level in the job during the year with the following

possible values:

EN Entry-level / Junior
MI Mid-level / Intermediate
SE Senior-level / Expert
EX Executive-level / Director

employment_type The type of employement for the role:

PT Part-time
FT Full-time
CT Contract
FL Freelance

job_title The role worked in during the year.

salary The total gross salary amount paid.

salary_currency The currency of the salary paid as an ISO 4217 currency code.

salary_in_usd The salary in USD (FX rate divided by avg. USD rate for the

respective year via fxdata.foorilla.com).

employee_residence Employee's primary country of residence in during the work year as

an ISO 3166 country code.

remote_ratio The overall amount of work done remotely, possible values are as

follows:

No remote work (less than 20%)

50 Partially remote

100 Fully remote (more than 80%)

company_location The country of the employer's main office or contracting branch as

an ISO 3166 country code.

company_size The average number of people that worked for the company during

the year:

S less than 50 employees (small)
M 50 to 250 employees (medium)
L more than 250 employees (large)

Figure 1: A caption