



# OMDENA – LA Local Chapter

LA Open Datasets



# Payroll : 2013 - 2022

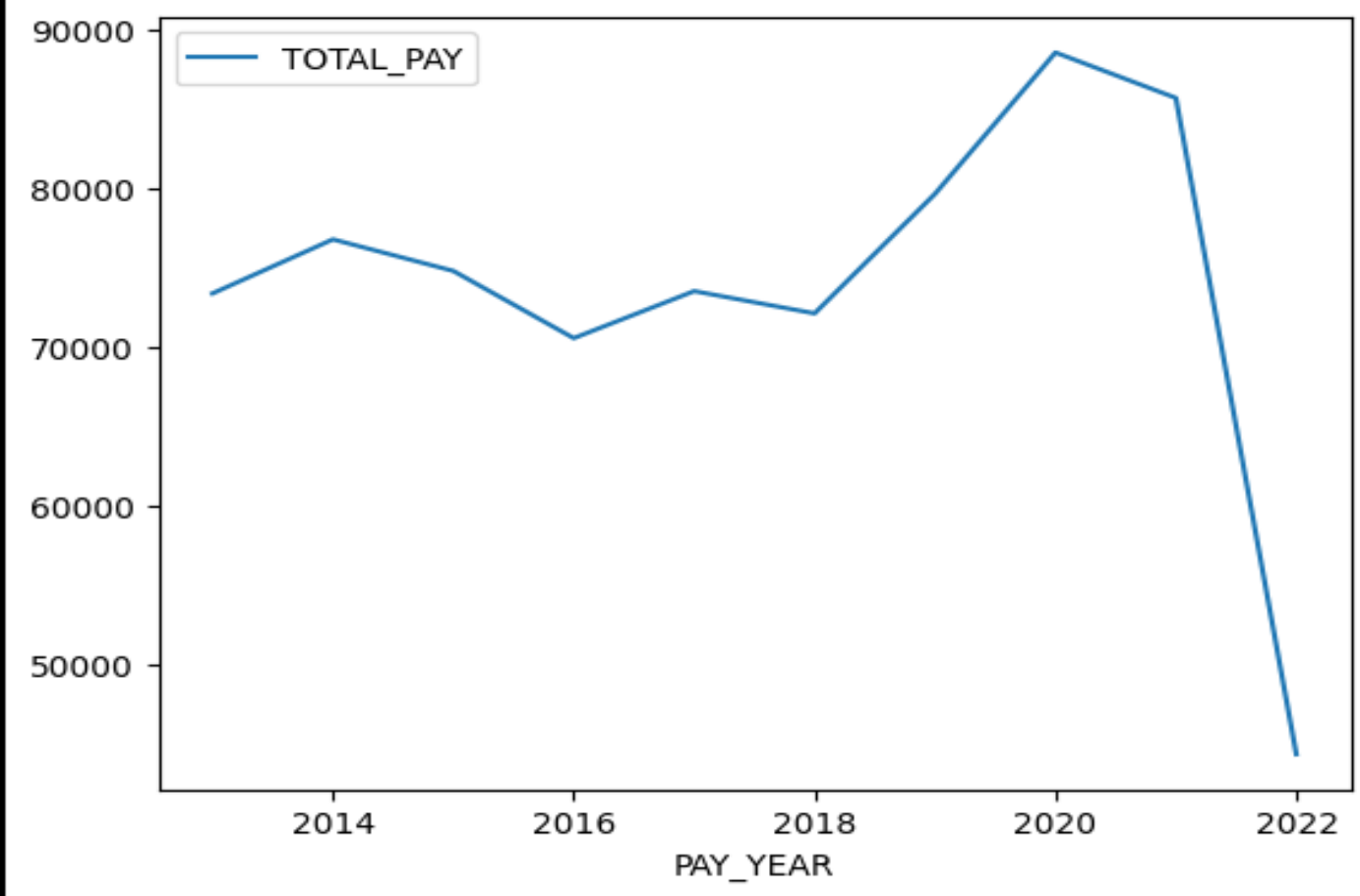
- Shape : (685461, 18)
- [https://github.com/OmdenaAI/la-usa-chapter-open-data/blob/main/src/visualizations/payroll\\_analysis.ipynb](https://github.com/OmdenaAI/la-usa-chapter-open-data/blob/main/src/visualizations/payroll_analysis.ipynb)



- Memory usage: 94.1+ MB
- D Types: float64(6), int64(2), object(10)
- Data columns (total 18 columns)

```
Data columns (total 18 columns):
#      Column                                     Non-Null Count  Dtype
---  -
0      RECORD_NBR                                685461 non-null  object
1      PAY_YEAR                                    685461 non-null  int64
2      DEPARTMENT_NO                             685461 non-null  int64
3      DEPARTMENT_TITLE                           685461 non-null  object
4      JOB_CLASS_PGRADE                           684919 non-null  object
5      JOB_TITLE                                  684919 non-null  object
6      EMPLOYMENT_TYPE                           685461 non-null  object
7      JOB_STATUS                                685461 non-null  object
8      MOU                                        684777 non-null  object
9      MOU_TITLE                                 684712 non-null  object
10     REGULAR_PAY                               685461 non-null  float64
11     OVERTIME_PAY                             685027 non-null  float64
12     ALL_OTHER_PAY                           685027 non-null  float64
13     TOTAL_PAY                               685461 non-null  float64
14     CITY_RETIREMENT_CONTRIBUTIONS           685461 non-null  float64
15     BENEFIT_PAY                             685461 non-null  float64
16     GENDER                                  681600 non-null  object
17     ETHNICITY                               681249 non-null  object
dtypes: float64(6), int64(2), object(10)
memory usage: 94.1+ MB
```

# Average of the paid amount by year

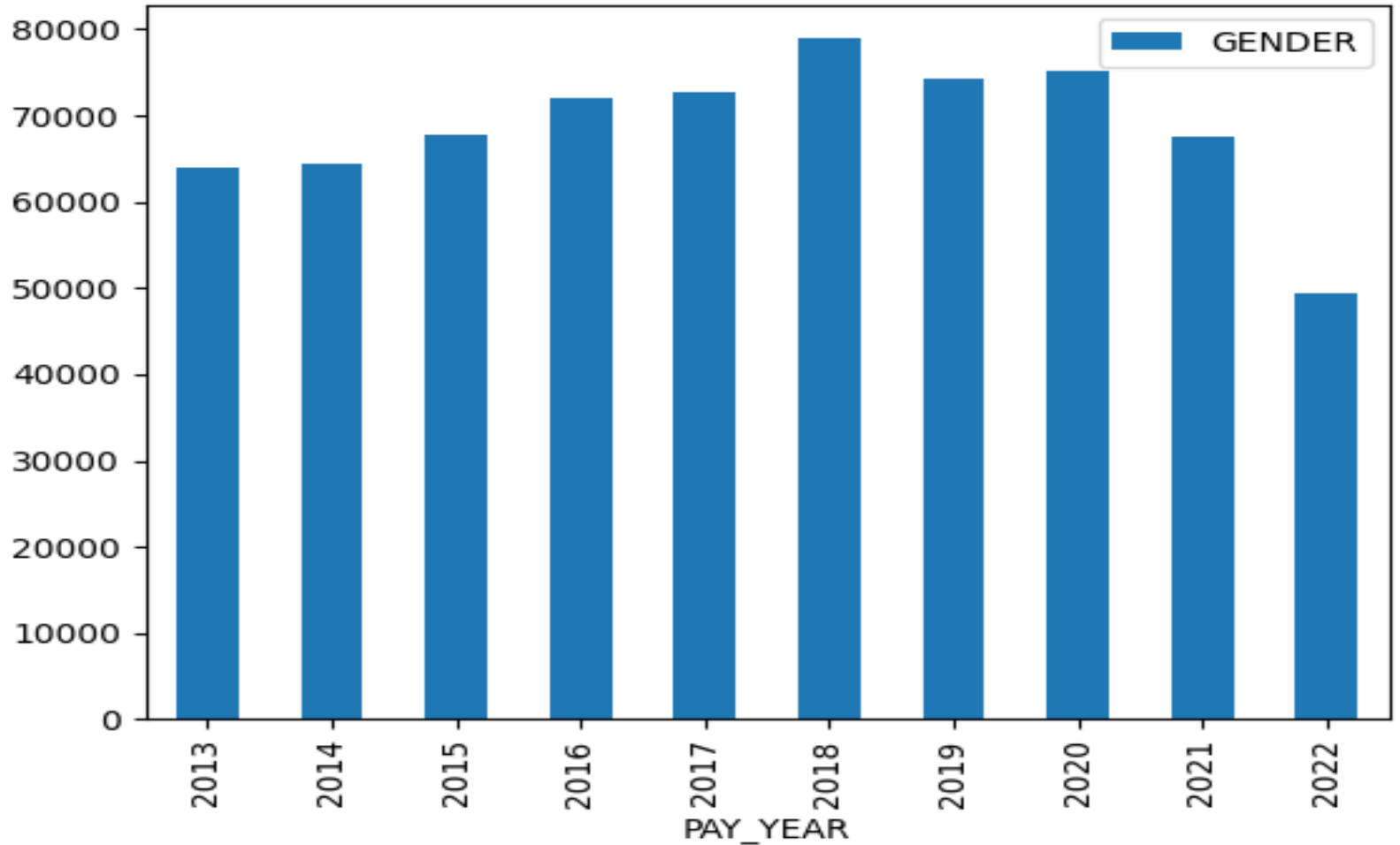


TOTAL_PAY	
PAY_YEAR	
2013	73346.741990
2014	76753.194806
2015	74764.558992
2016	70529.985632
2017	73493.681288
2018	72090.465915
2019	79620.031823
2020	88520.358996
2021	85658.243956
2022	44330.028540

Average salaries started to fall in 2021 and dropped significantly in 2022.

# Total Employees

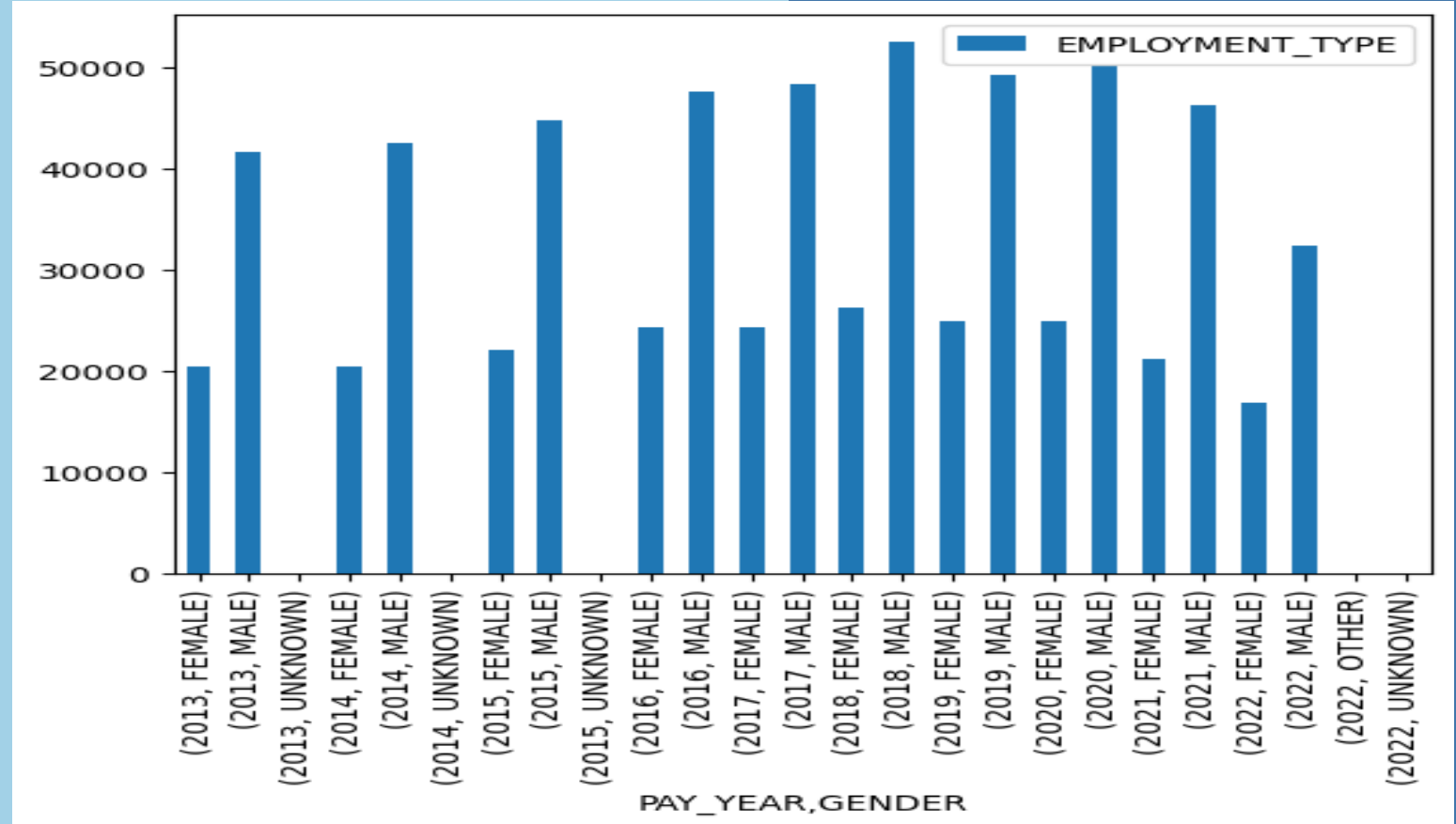
EMPLOYMENT_TYPE	FULL_TIME	PART_TIME	PER_EVENT
PAY_YEAR			
2013	49990	13740	156
2014	51683	12554	223
2015	52960	14493	213
2016	55126	16455	388
2017	57695	14534	361
2018	62839	13974	2021
2019	59778	14059	345
2020	61674	12915	438
2021	57211	10006	201
2022	40034	9244	151



The number of employees will decline in 2021, especially in 2022

# Total Employees by the different gender and years

- For the period from 2013 to 2022, there are more male employees than there are female employees.



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## LA - Payroll

- We deduced from the statistics that fewer employees meant lower average pay, which started to decline in 2021.
- As there will be fewer staff starting in 2021, we must ascertain why this is happening and whether Covid-19 is involved.

**Thank You**