

SUBMITION REPORT

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Summary of Insights

1. Basic Data Exploration:

- The dataset contains 148654 rows and 13 columns.
- The data types of each column include [int64, object, float64].
- There are missing values across the dataset, for each column in the dataset we have saw this:
 - BasePay has 609 missing values.
 - OvertimePay has 4 missing values.
 - OtherPay has 4 missing values.
 - Benefits has 36163 missing values.
 - Notes has 148654 missing values.
 - Status has 148654 missing values.

2. Descriptive Statistics:

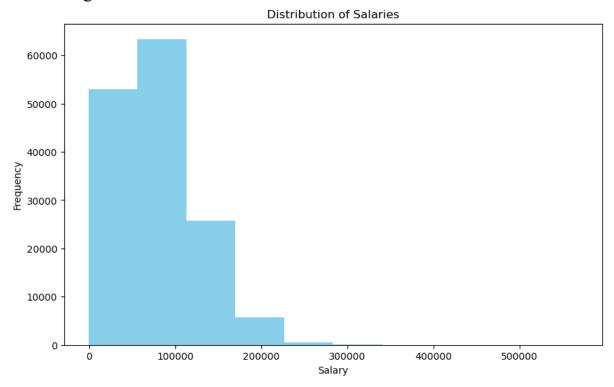
- The average salary in the dataset is 74768.32197169265, with a minimum salary of -618.13 and a maximum salary of 567595.43.
- The range of salaries is 568213.56, and the standard deviation is [50517.00527394988].

3. Data Cleaning:

- I have dropped the columns that does not have any values.
- I used the mean to fill missing values in the salary column. This is a common approach, especially when the missing values are few and the variable is approximately normally distributed.

4. Basic Data Visualization:

- A histogram was created to visualize the distribution of salaries :



5. Grouped Analysis:

- some data:

Average Salary by Department:

JobTitle	
Account Clerk	43009.395299
Accountant	47429.268000
Accountant I	62036.101250
Accountant Ii	67355.202699
Accountant Iii	79001.071547
	• • •
Worker'S Compensation Supervisor I	91020.726000
X-Ray Laboratory Aide	51212.279048
Youth Comm Advisor	41414.307500
Youth Commission Advisor, Board Of Supervisors	53632.870000
Zoo Curator	66686.560000