



Data Collection and Preprocessing Phase

Date	31 June 2024
Team ID	739762
Project Title	Software Salary Prediction
Maximum Marks	6 Marks

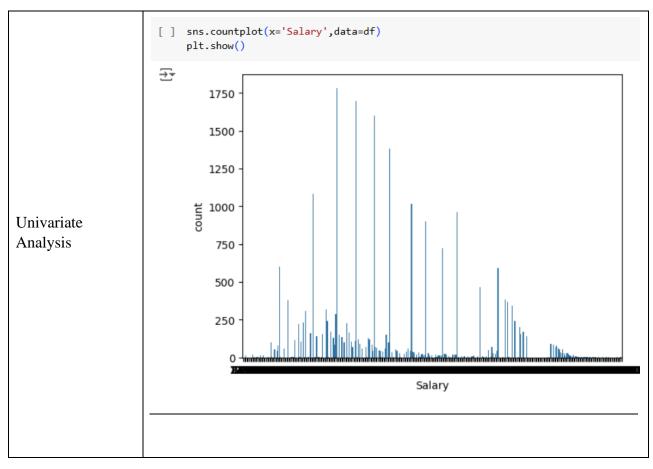
Data Exploration and Preprocessing

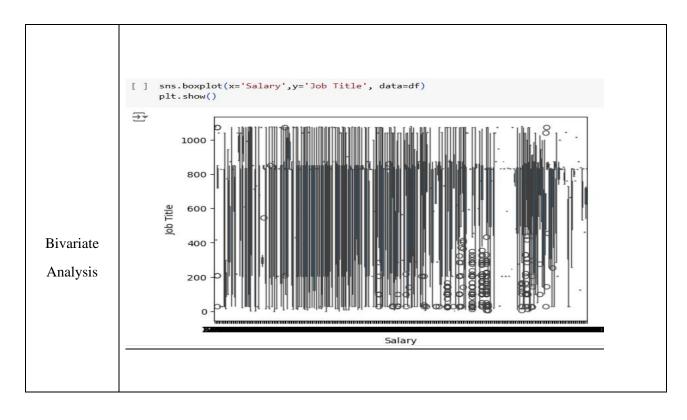
Dataset gets statistically analysed to identify patterns and outliers. Data preprocessing addresses missing values, improving data quality for further analysis and modelling, and forming a strong foundation for insights and predictions.

Section	De	scrip	tion							
	<u>Dimensions:</u> 64rows*8 Columns <u>Descriptive Statistics:</u>									
	→			Company Name	Job Title	Salary	Salaries Reported	Location	Employment Status	Job Roles
		count	22770.000000	22770.000000	22770.000000	2.277000e+04	22770.000000	22770.000000	22770.000000	22770.000000
Data		mean	3.918213	5478.825209	597.435968	6.953872e+05	1.855775	3.150812	1.071322	5.465086
Overview		std	0.519675	3224.603280	348.305504	8.843990e+05	6.823668	3.529116	0.342450	3.221968
Overview		min	1.000000	0.000000	0.000000	2.112000e+03	1.000000	0.000000	0.000000	0.000000
		25%	3.700000	2756.000000	237.000000	3.000000e+05	1.000000	0.000000	1.000000	3.000000
		50%	3.900000	5317.500000	753.000000	5.000000e+05	1.000000	2.000000	1.000000	7.000000
		75%	4.200000	8336.000000	850.000000	9.000000e+05	1.000000	8.000000	1.000000	8.000000
		max	5.000000	11260.000000	1079.000000	9.000000e+07	361.000000	9.000000	3.000000	10.000000



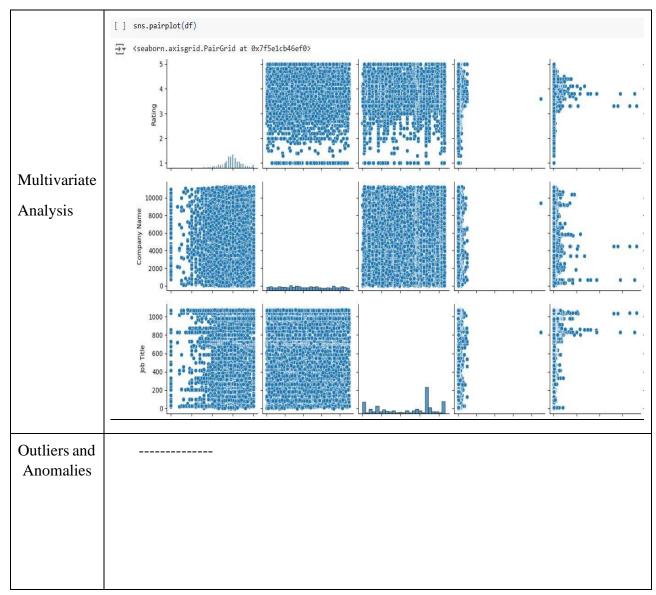












Data Preprocessing Code Screenshots

	df =	pd.r	ead_csv('Salary_Dataset_wi	th_Extra_Featu	res.csv')			
	df.h	nead()							
_	- 10	Rating	Company Name	Job Title	Salary	Salaries Reported	Location	Employment Status	Job Roles
Loading	0	3.8	Sasken	Android Developer	400000	3	Bangalore	Full Time	Android
Data	1	4.5	Advanced Millennium Technologies	Android Developer	400000	3	Bangalore	Full Time	Android
	2	4.0	Unacademy	Android Developer	1000000	3	Bangalore	Full Time	Android
	3	3.8	SnapBizz Cloudtech	Android Developer	300000	3	Bangalore	Full Time	Android
	4	4.4	Appoids Tech Solutions	Android Developer	600000	3	Bangalore	Full Time	Android





	[] df.info()
	<pre><class 'pandas.core.frame.dataframe'=""> RangeIndex: 22770 entries, 0 to 22769 Data columns (total 8 columns): # Column Non-Null Count Dtype</class></pre>
Handling	0 Rating 22770 non-null float64
Missing	1 Company Name 22769 non-null object
Values	2 Job Title 22770 non-null object
	3 Salary 22770 non-null int64
	4 Salaries Reported 22770 non-null int64
	5 Location 22770 non-null object
	6 Employment Status 22770 non-null object
	7 Job Roles 22770 non-null object
	dtypes: float64(1), int64(2), object(5) memory usage: 1.4+ MB

Data Transformation	
Feature Engineering	
Save Processed Data	