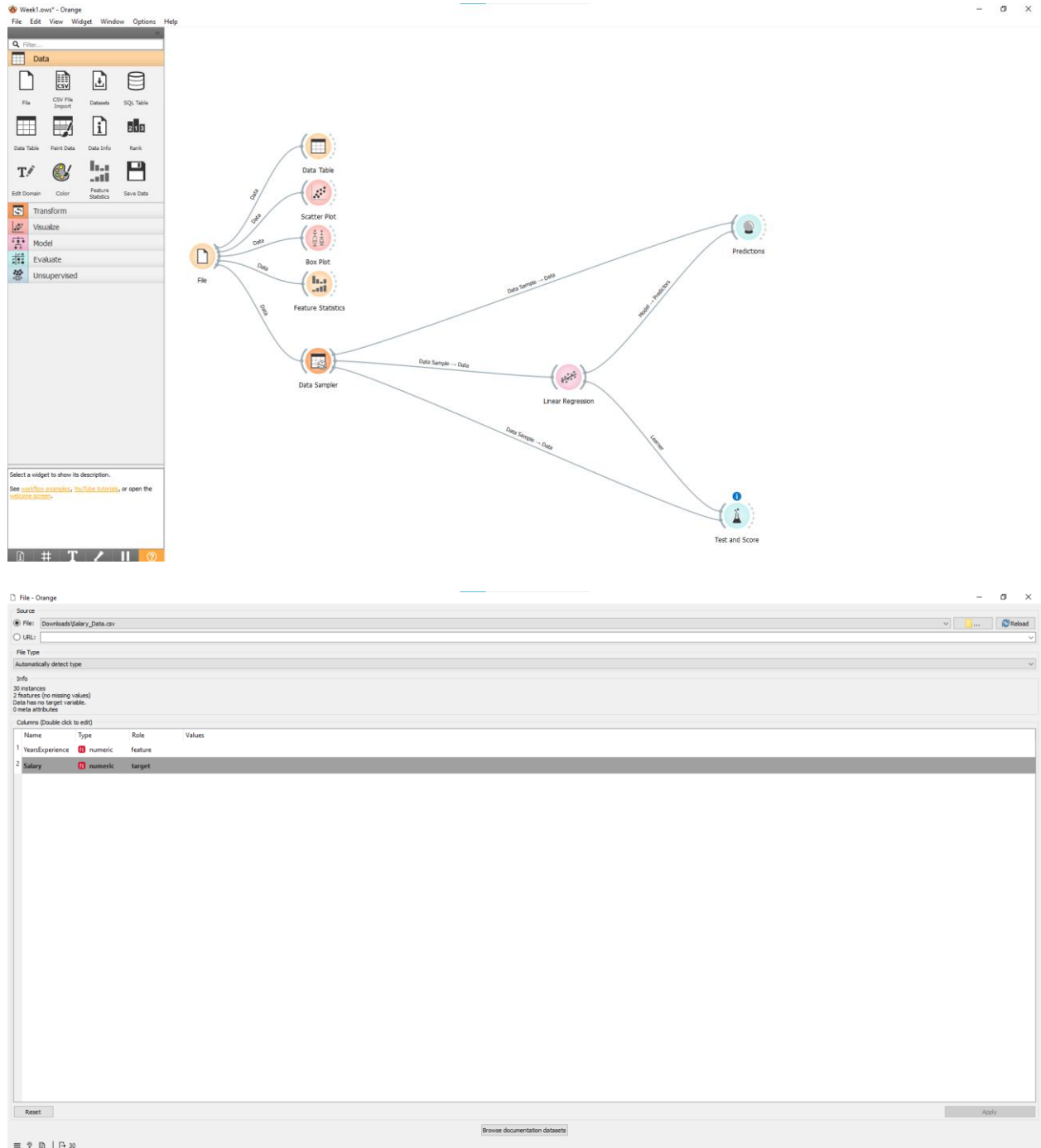


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Week 1 Task 3 (Orange Data)



Data Table - Orange

Info

30 instances (no missing data)

1 feature

Numeric outcome

No meta attributes

Variables

☒ Show variable labels (if present)

☐ Visualize numeric values

☒ Color by instance classes

Selection

☒ Select full rows

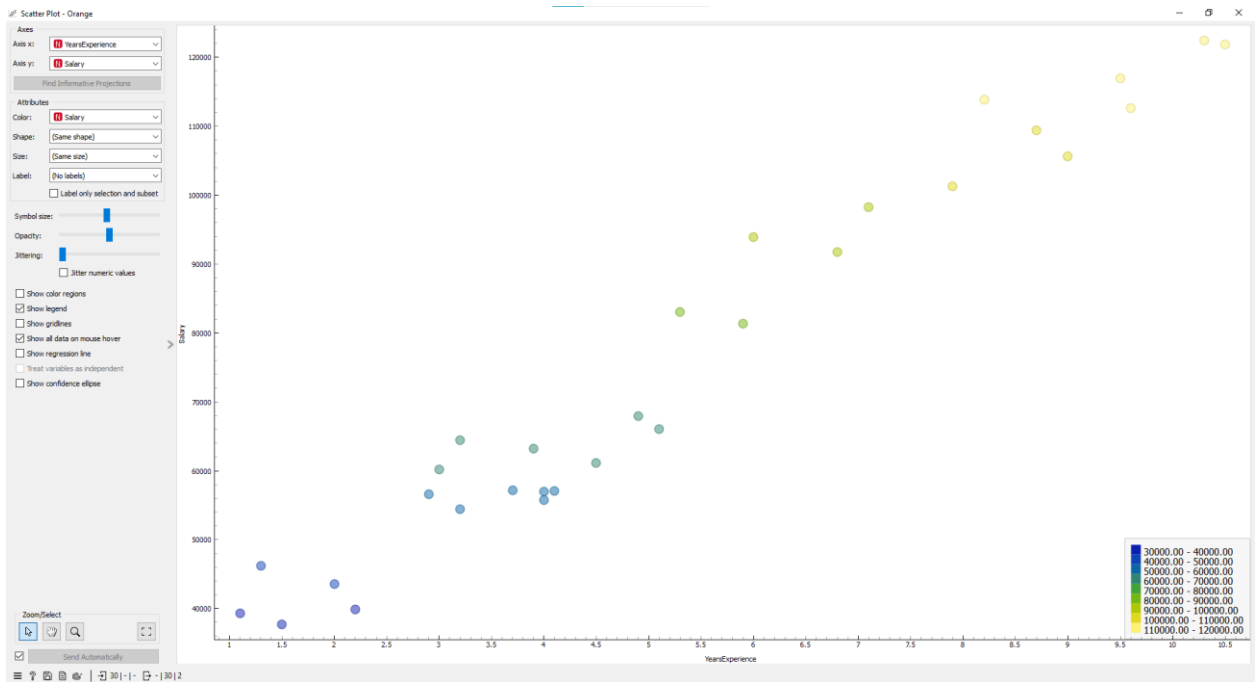
Restore Original Order

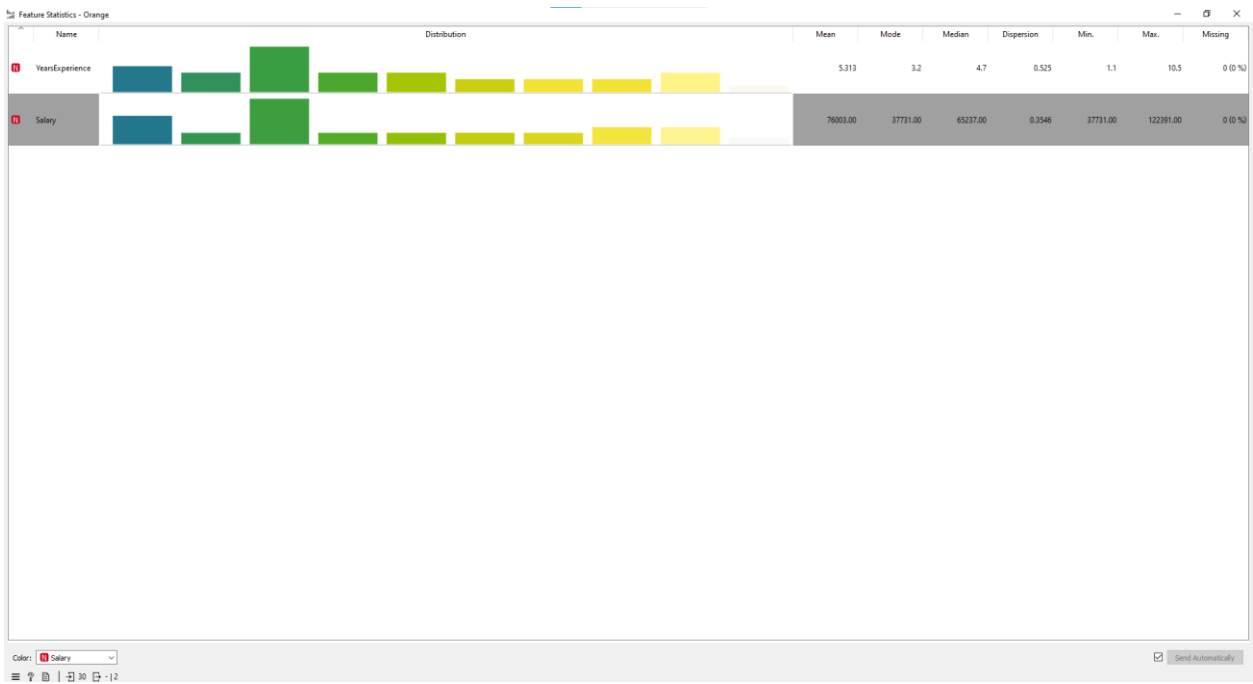
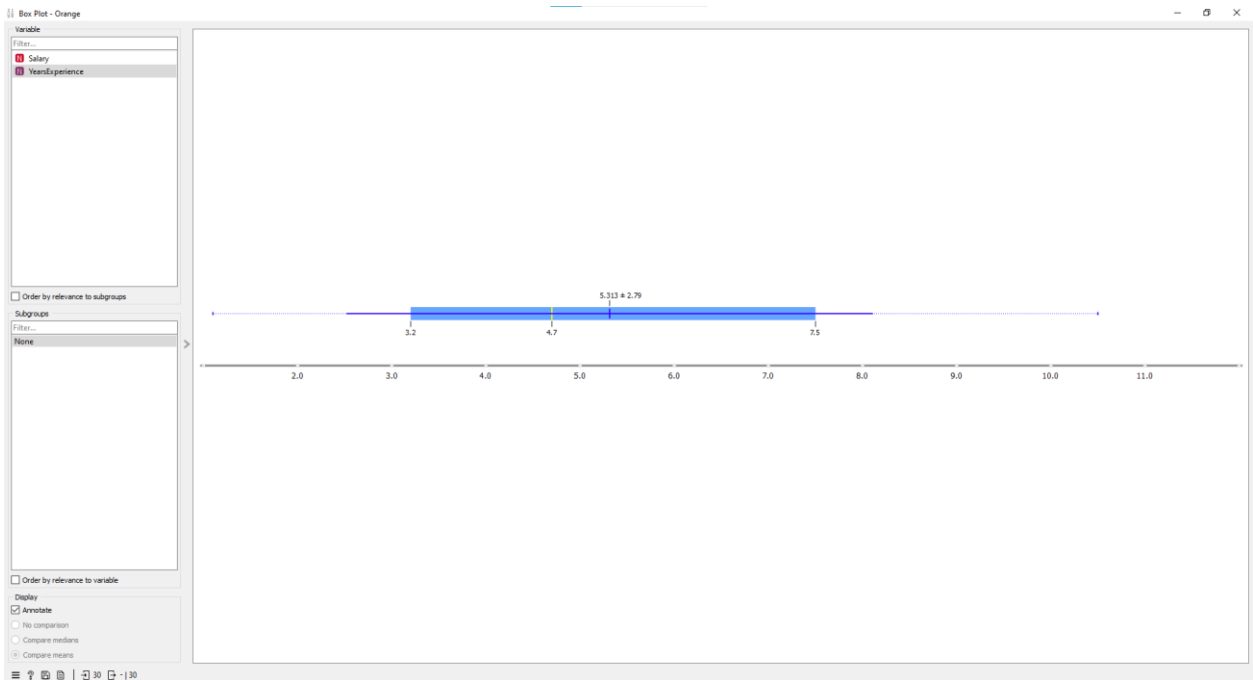
☒ Send Automatically

	Salary	YearExperience
1	39343.00	1.1
2	46205.00	1.3
3	37731.00	1.5
4	43525.00	2.0
5	39891.00	2.2
6	56642.00	2.9
7	60160.00	3.0
8	54445.00	3.2
9	64445.00	3.2
10	57189.00	3.7
11	63218.00	3.9
12	55794.00	4.0
13	56957.00	4.0
14	57081.00	4.1
15	61111.00	4.5
16	67938.00	4.9
17	66029.00	5.1
18	83088.00	5.3
19	81563.00	5.9
20	91940.00	6.0
21	91736.00	6.8
22	98273.00	7.1
23	101302.00	7.9
24	113812.00	8.2
25	106431.00	8.7
26	105562.00	9.0
27	119969.00	9.5
28	112635.00	9.6
29	122391.00	10.3
30	121872.00	10.5

Zoom/Select

☒ Send Automatically





Linear Regression - Orange

Name

Linear Regression

Parameters

☒ Fit intercept (unchecking it fixes it to zero)

Regularization

☒ No regularization Regularization strength:

☐ Ridge regression (L2) Alpha: 0.0001

☐ Lasso regression (L1) Elastic net mixing:

☐ Elastic net regression L1 L2

0.50 : 0.50

☒ Apply Automatically

Data Sampler - Orange

Sampling Type

☒ Fixed proportion of data: 70 %

☐ Fixed sample size

Instances:

☐ Sample with replacement

☐ Cross validation

Number of subsets:

Unused subset:

☐ Bootstrap

Options

☒ Replicable (deterministic) sampling

☐ Stratify sample (when possible)

Sample Data

Predictions - Orange

Shown regression error: Difference

	Linear Regression	error	Salary	YearsExperience
1	116171.39	2536.39	112635.00	9.6
2	71665.83	3727.83	67638.00	4.9
3	102914.41	-1095.41	113812.00	8.2
4	75453.53	7834.53	62888.00	5.3
5	55568.07	8876.07	64445.00	3.2
6	60302.70	3113.70	57188.00	3.7
7	122799.88	408.88	122391.00	10.3
8	107649.05	-1781.05	109431.00	8.7
9	63143.48	6186.48	56957.00	4.0
10	35682.60	3660.60	39343.00	1.1
11	48086.80	6207.80	38891.00	2.2
12	73559.68	7530.68	66258.00	5.1
13	52727.29	3914.29	58642.00	2.9
14	64090.41	7009.41	57081.00	4.1
15	63143.48	7349.48	55784.00	4.0
16	100073.63	-1228.63	101302.00	7.9
17	37576.46	8628.46	46205.00	1.3
18	39470.31	1739.31	37731.00	1.5
19	110489.83	4907.83	105582.00	9.0
20	44204.94	679.94	45523.00	2.0
21	92498.22	-574.22	96775.00	7.1

Show performance scores

Model	MSE	RMSE	MAE	MAPE	R2
Linear Regression	33216979.733	5763.417	4990.261	0.078	0.957

☒ Cross-validation
Number of folds: 5
☒ Stratified
☐ Cross-validation by feature
☐ Random sampling
Repeat train/test: 10
Training set size: 66 %
☒ Stratified
☐ Leave one out
☐ Test on train data
☐ Test on test data

Model	MSE	RMSE	MAE	MAPE	R2
Linear Regression	41541929.995	6445.303	5688.801	0.091	0.946

Compare models by: Mean square error Negligible diff.: 0.1

Linear Regression	Linear Re...

Table shows probabilities that the score for the model in the row is higher than that of the model in the column. Small numbers show the probability that the difference is negligible.