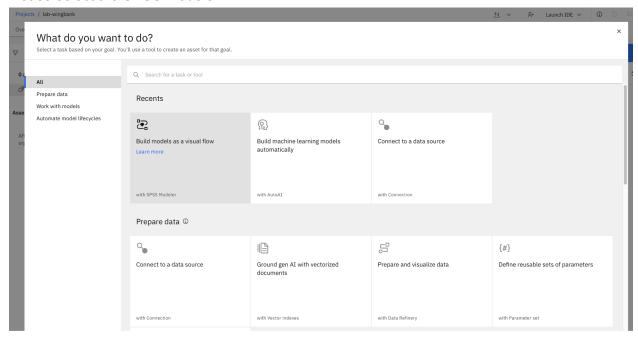
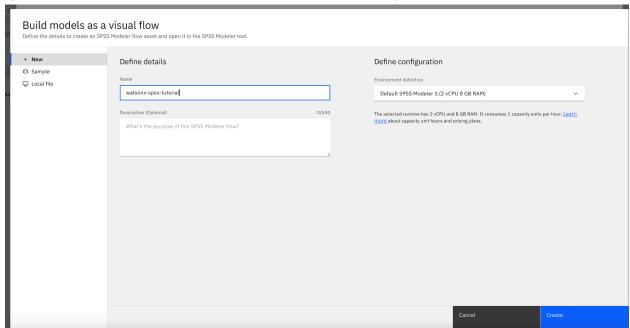
Lab 4 SPSS Modeler

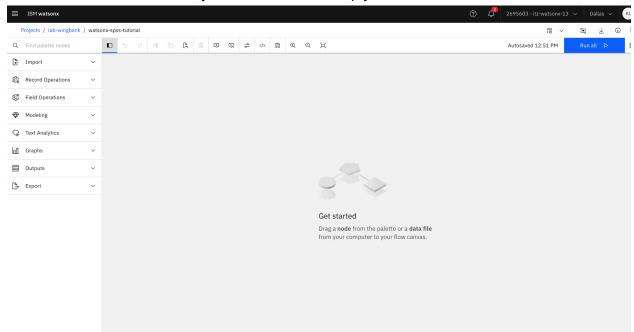
Please select the SPSS Modeler.



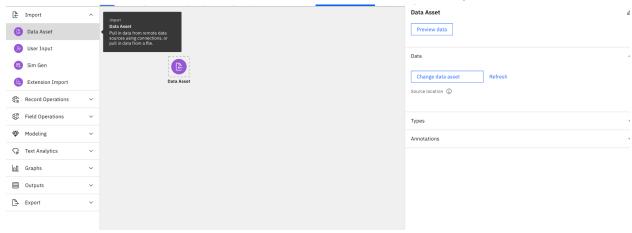
Type in the name of the visual flow. This will be the name of your spss modeler asset.



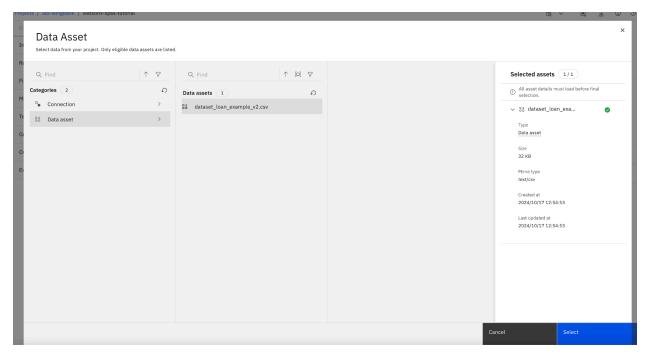
Once the resource is created, you should see this empty canvas.



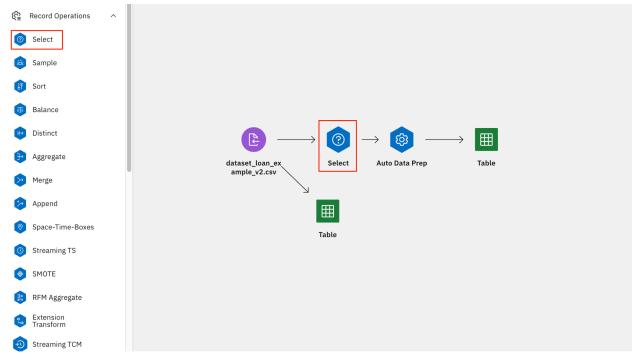
The first step is to create a data asset. Here, please press on the change data asset.

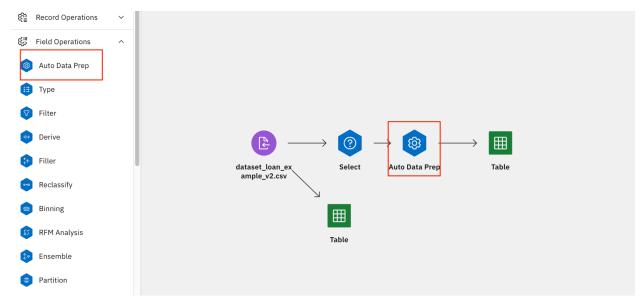


Please locate your `dataset_loan_example_v2.csv`.

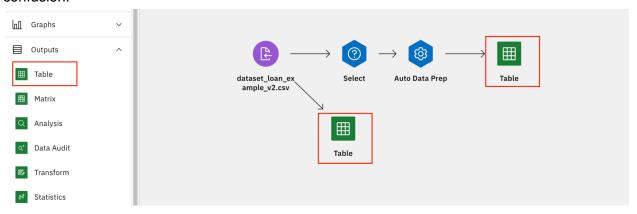


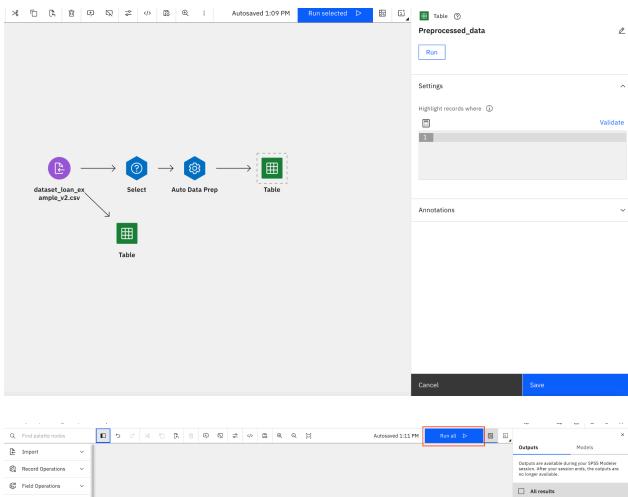
Please drag and drop the select icon under 'record operations' to select the columns you want for Auto Data Preparation.

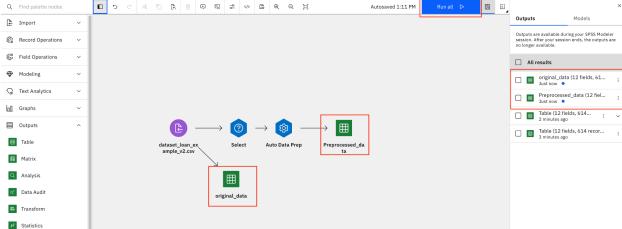




Once, selected auto data prep, we can add tables to visualize the preprocessed and un-preprocessed data. Please open each table and rename the table icon accordingly to avoid confusion.







Press on run all, once ran you should get to see the preprocessed data and the original data table.

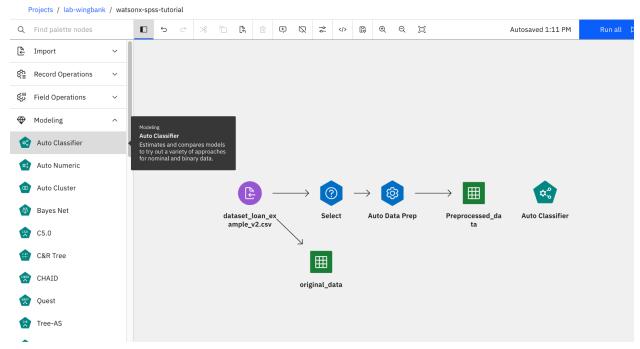
												Select all data
	Gender	Married	Dependents	Education	Self_Employed	ApplicantIncome	CoapplicantIncome	LoanAmount	Loan_Amount_Term	Credit_History	Property_Area	Y
			•				• • • • • • • • • • • • • • • • • • • •					
1	Male	No	0	Graduate	No	5849	0.000	null	360	1	Urban	Υ
2	Male	Yes	1	Graduate	No	4583	1508.000	128	360	1	Rural	N
3	Male	Yes	0	Graduate	Yes	3000	0.000	66	360	1	Urban	Υ
4	Male	Yes	0	Not Graduate	No	2583	2358.000	120	360	1	Urban	Υ
5	Male	No	0	Graduate	No	6000	0.000	141	360	1	Urban	Υ
6	Male	Yes	2	Graduate	Yes	5417	4196.000	267	360	1	Urban	Υ
7	Male	Yes	0	Not Graduate	No	2333	1516.000	95	360	1	Urban	Υ
8	Male	Yes	3	Graduate	No	3036	2504.000	158	360	0	Semiurban	N
9	Male	Yes	2	Graduate	No	4006	1526.000	168	360	1	Urban	Υ
10	Male	Yes	1	Graduate	No	12841	10968.000	349	360	1	Semiurban	N
11	Male	Yes	2	Graduate	No	3200	700.000	70	360	1	Urban	Υ
12	Male	Yes	2	Graduate		2500	1840.000	109	360	1	Urban	Υ
13	Male	Yes	2	Graduate	No	3073	8106.000	200	360	1	Urban	Υ
14	Male	No	0	Graduate	No	1853	2840.000	114	360	1	Rural	N
15	Male	Yes	2	Graduate	No	1299	1086.000	17	120	1	Urban	Υ
16	Male	No	0	Graduate	No	4950	0.000	125	360	1	Urban	Υ
17	Male	No	1	Not Graduate	No	3596	0.000	100	240	null	Urban	Υ
18	Female	No	0	Graduate	No	3510	0.000	76	360	0	Urban	N
19	Male	Yes	0	Not Graduate	No	4887	0.000	133	360	1	Rural	N
20	Male	Yes	0	Graduate		2600	3500.000	115	null	1	Urban	Υ
21	Male	Yes	0	Not Graduate	No	7660	0.000	104	360	0	Urban	N

View Output: Preprocessed_data (12 fields, 614 records)

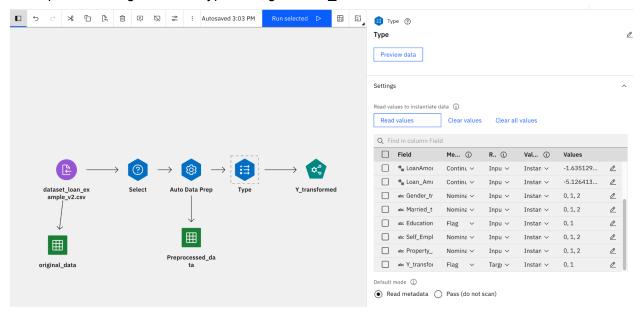
Compare 🖽

							Select all data 🗀
	Dependents_transformed	Credit_History_transformed	ApplicantIncome_transformed	CoapplicantIncome_transformed	LoanAmount_transformed	Loan_Amount_Term_transformed	Gender_transfor
1	0	1	0.073	-0.554	0.000	0.280	2
2	1	1	-0.134	-0.039	-0.219	0.280	2
3	0	1	-0.393	-0.554	-0.957	0.280	2
4	0	1	-0.462	0.252	-0.314	0.280	2
5	0	1	0.098	-0.554	-0.064	0.280	2
6	2	1	0.002	0.880	1.435	0.280	2
7	0	1	-0.503	-0.036	-0.612	0.280	2
8	3	0	-0.388	0.302	0.138	0.280	2
9	2	1	-0.229	-0.033	0.257	0.280	2
10	1	1	1.217	3.194	2.411	0.280	2
11	2	1	-0.361	-0.315	-0.909	0.280	2
12	2	1	-0.475	0.075	-0.445	0.280	2
13	2	1	-0.381	2.216	0.638	0.280	2
14	0	1	-0.581	0.416	-0.386	0.280	2
15	2	1	-0.672	-0.183	-1.540	-3.449	2
16	0	1	-0.074	-0.554	-0.255	0.280	2
17	1	null	-0.296	-0.554	-0.552	-1.585	2
18	0	0	-0.310	-0.554	-0.838	0.280	1
19	0	1	-0.085	-0.554	-0.160	0.280	2
20	0	1	-0.459	0.642	-0.374	0.000	2
21	0	0	0.369	-0.554	-0.505	0.280	2

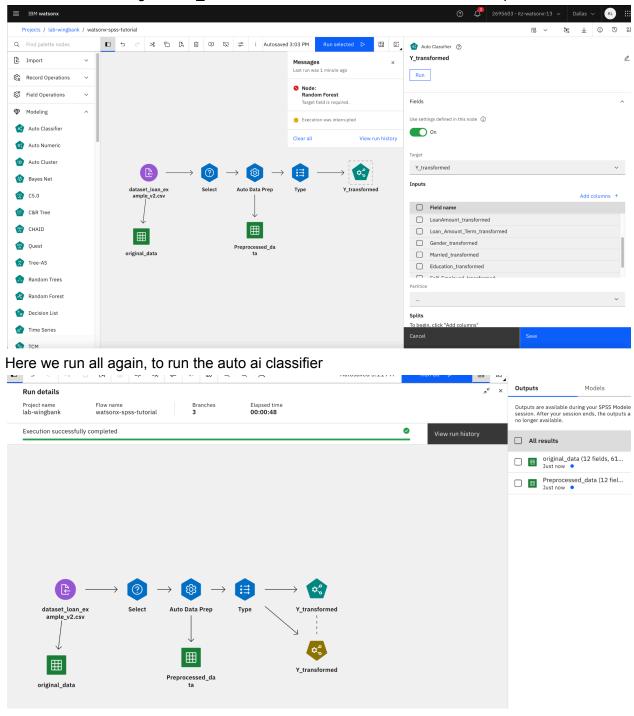
Next we will be creating an Auto Al Classifier. Drag and drop and a line between auto data prep and auto classifier. The "type" icon will automatically be created.



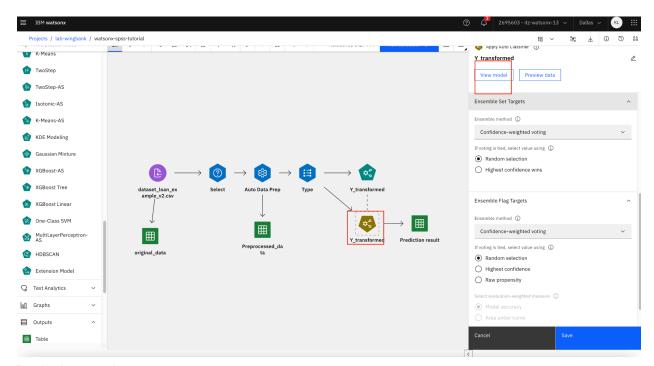
Here, please change the field type to target for "Y_transform".



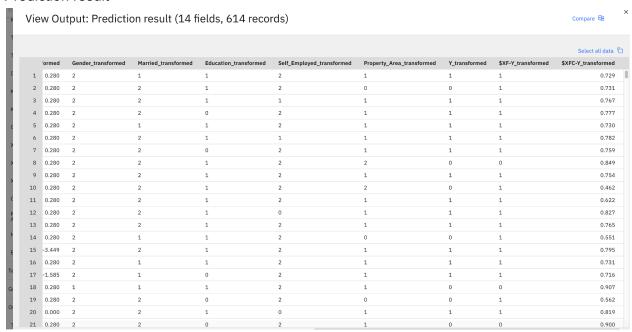
Please select the target as "Y_transformed" and the rest of the columns as inputs.



Now we can view the auto Al pipeline by clicking View Model.



Prediction result



Here is the model trained and ranked.

