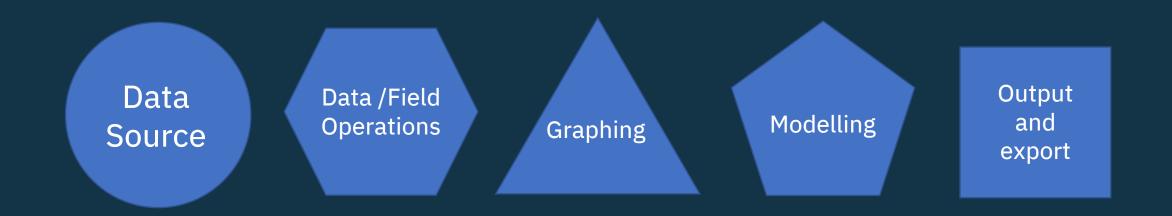
SPSS Modeler 18.2.2

A Quick Recap

Looks too complex to use but it really is not

The **shape** of the Node tells you what it does



Creating connections



Middle click on the Node and draw a connection to next node



Click on the node and press F2 on your keyboard

Common Data import nodes



Used for .SQV files which is most common format in spss



Used for other text encoded files like .CSV.XlS

Roles

**** Input

Features used to make the prediction



Label we are trying to predict



Values to be Ignored

Measurement

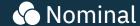


Numerical *Eg:* 1,2,3,4,5....

Categorical
Contains groups *Eg:*

Cat,Dog Class1,class2 **I** Ordinal

Categories with ranking *Eg:*Rating 1,2,3
Bad, Good, Excellent



Categories without ranking Eg:
Delhi, Mumbai, Pune
Monday, Tuesday



Has only 2 values
Eg:
Yes, No
True, False

Typeless

Values to be Ignored

Classification

Classification is when we predict a **Label**

Eg:

- Is this email spam or not?
- Is this picture of a Dog or a Cat?
- Will this customer purchase my premium plan or not?

Regression

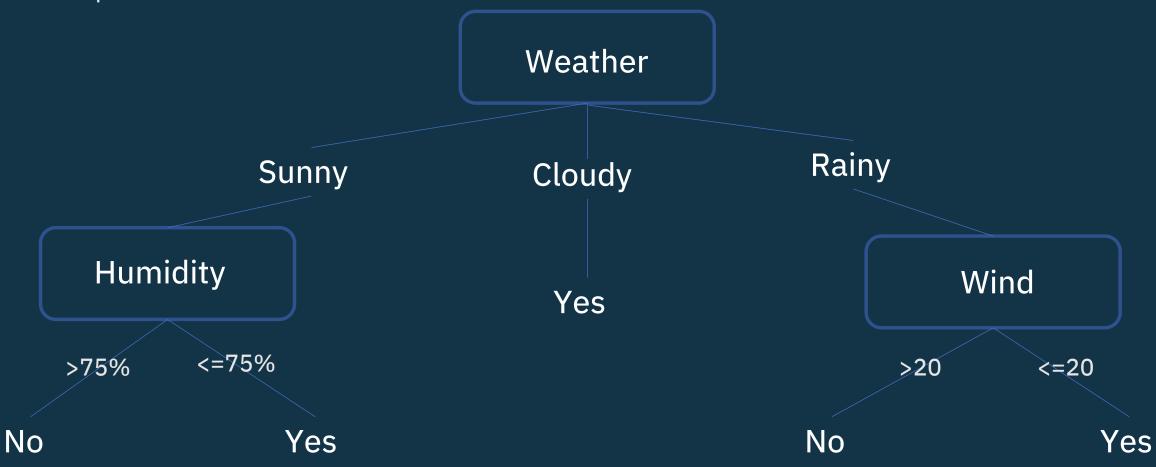
Regression is when we predict a **Quantity**

Eg:

- What can be the price of this stock by tomorrow?
- What can be the temperature tomorrow at 6 am?
- What can be the price of this house with 3 bedrooms if I know the price of a similar flat with 2 bedrooms

Decision Trees

Decision tree algorithm can be used for solving Regression and Classification problems too.



Ensemble Models

Ensemble models are combination of several base models in order to produce one optimal predictive model



automatically perform the Basic Data Preparation operations

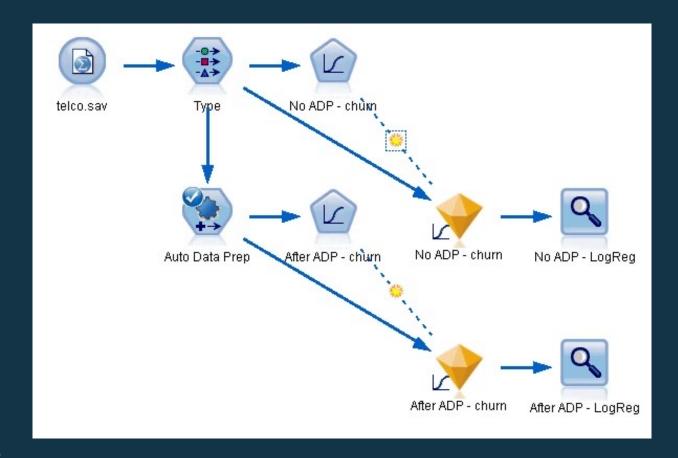


Nodes used to auto select the best suited model and generate top performing models

Download sample files from: github.com/krishnac7/spssSamples

Automated Data Preparation

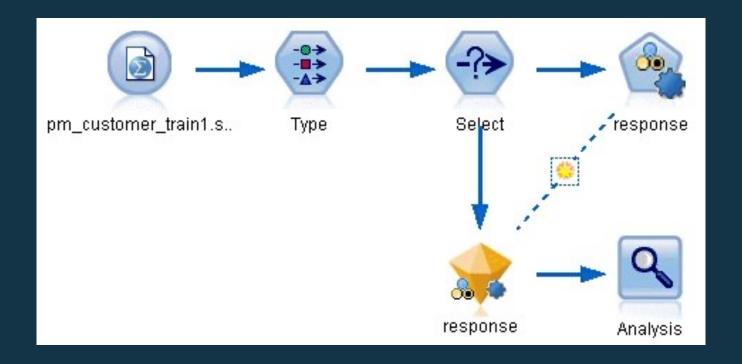
Compare and contrast model accuracies prior and post Data Prep



Download sample files from: github.com/krishnac7/spssSamples

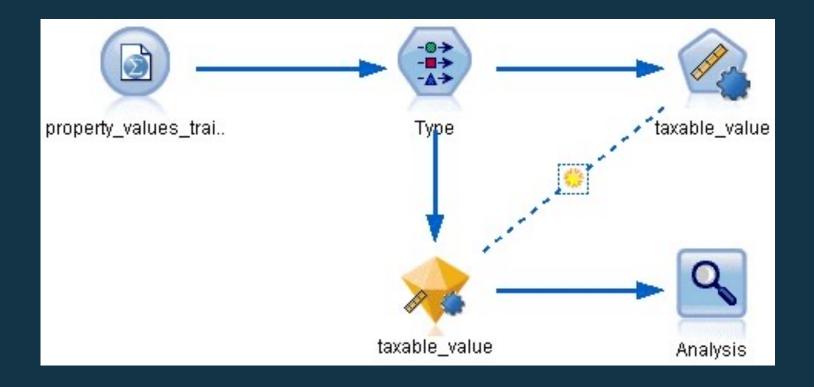
Automated modelling for Flag Target

A Company that wants to achieve more profitable results by matching the right offer to each customer.



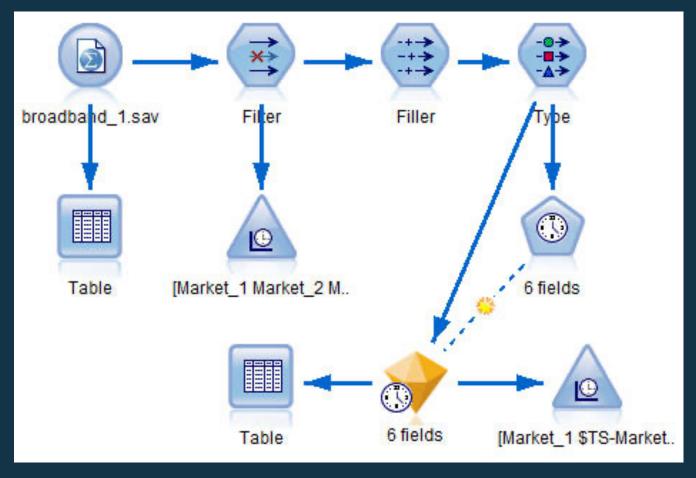
Automated Modelling for Continuous Target

We will build a model that predicts property values based on building type, neighbourhood, size, and other known factors.



Modelling Timeseries Data

Produce forecasts of user subscriptions in order to predict utilization of bandwidth



Thank you!