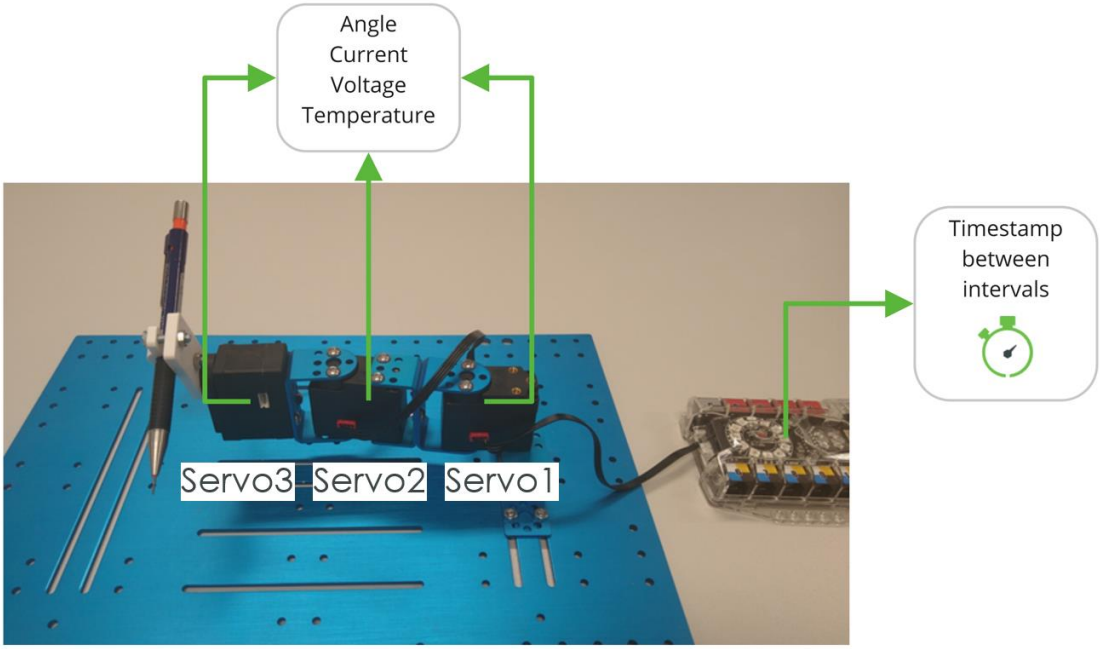
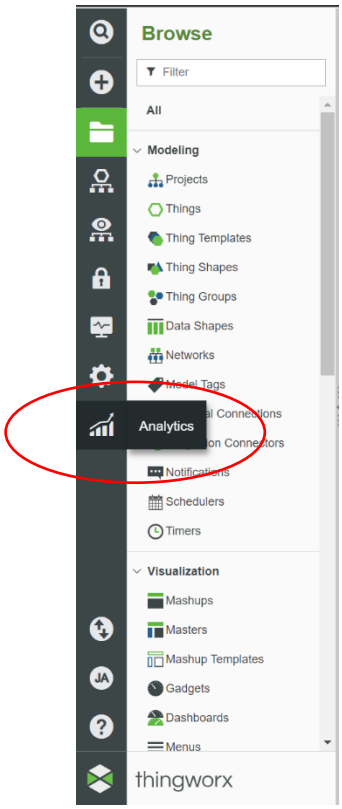
Create an Analytics model and use it with a Thing

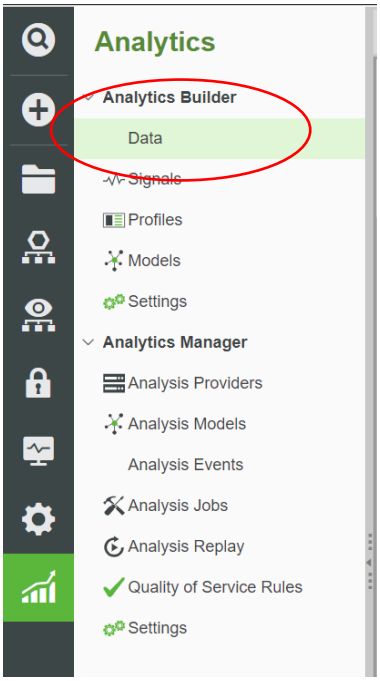
1. Demonstrator



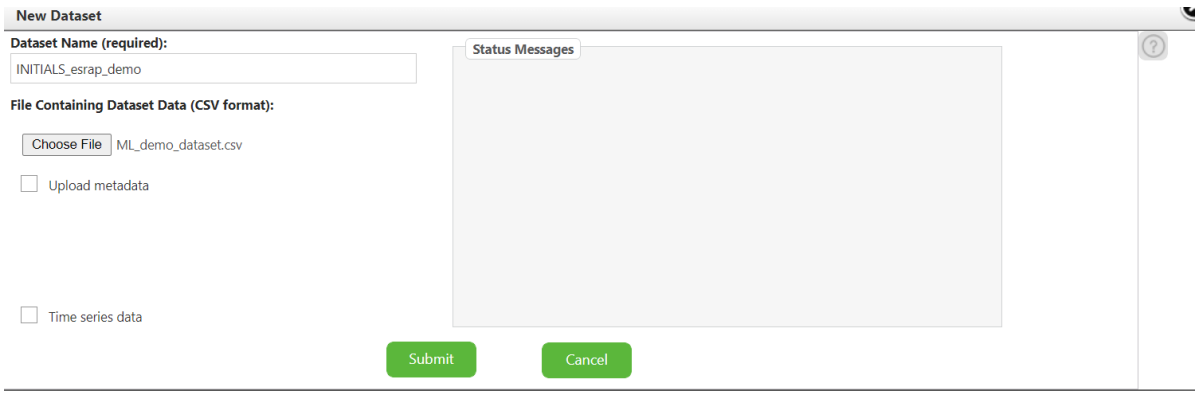
   a. Dataset: ML_demo_dataset.csv
2. Navigate to Analytics on the menu bar on the left side of composer:



3. Select Data

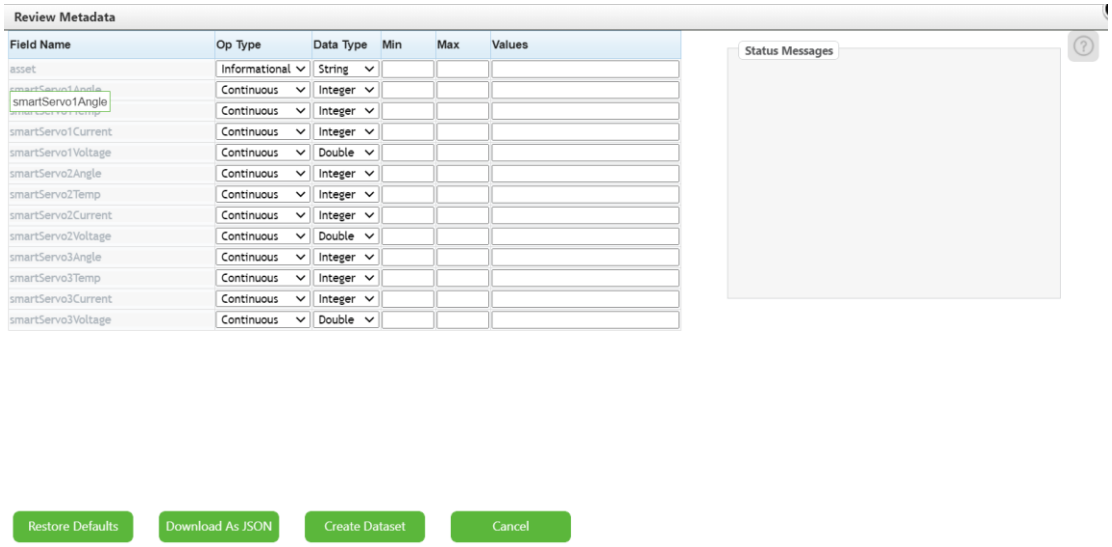


4. Create New dataset
    a. Name: INITIALS_esrap_demo
    b. Choose File -> navigate to the ML_demo_dataset.csv file on your PC
    c. Uncheck the boxes (see screenshot below)
    d. Submit

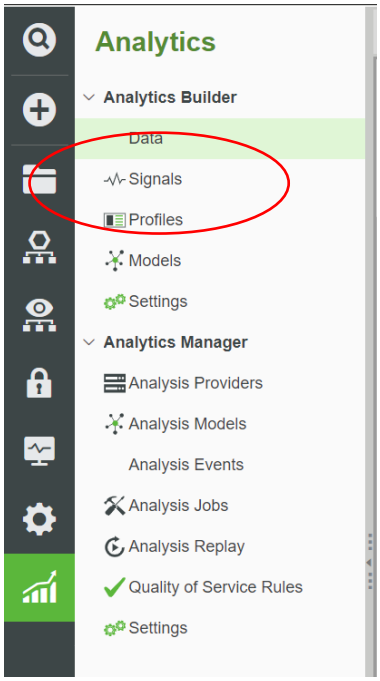


5. Add Metadata information
    a. Op Type:
        i. Asset = Informational
        ii. Everything else Continuous
    b. Data Type:
        i. Asset = String
        ii. Voltage values = Double
        iii. All other values = Integer
    c. Download As JSON (If you want to recreate the dataset, you do not have to supply the Metadata information manually. You can use the JSON as source)

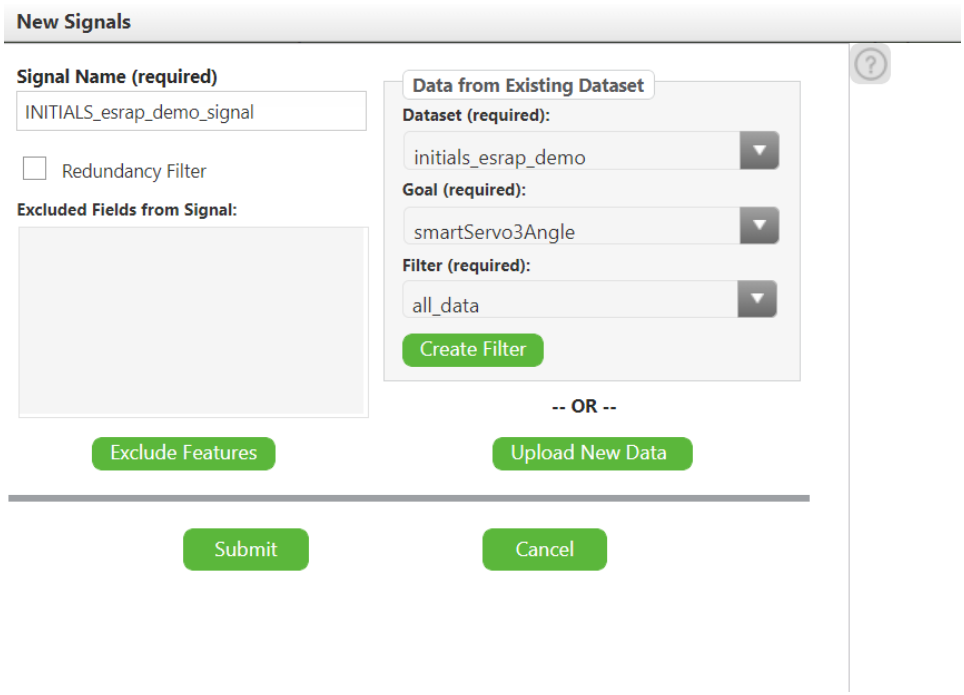
d. Compare with the image below
e. Create Dataset



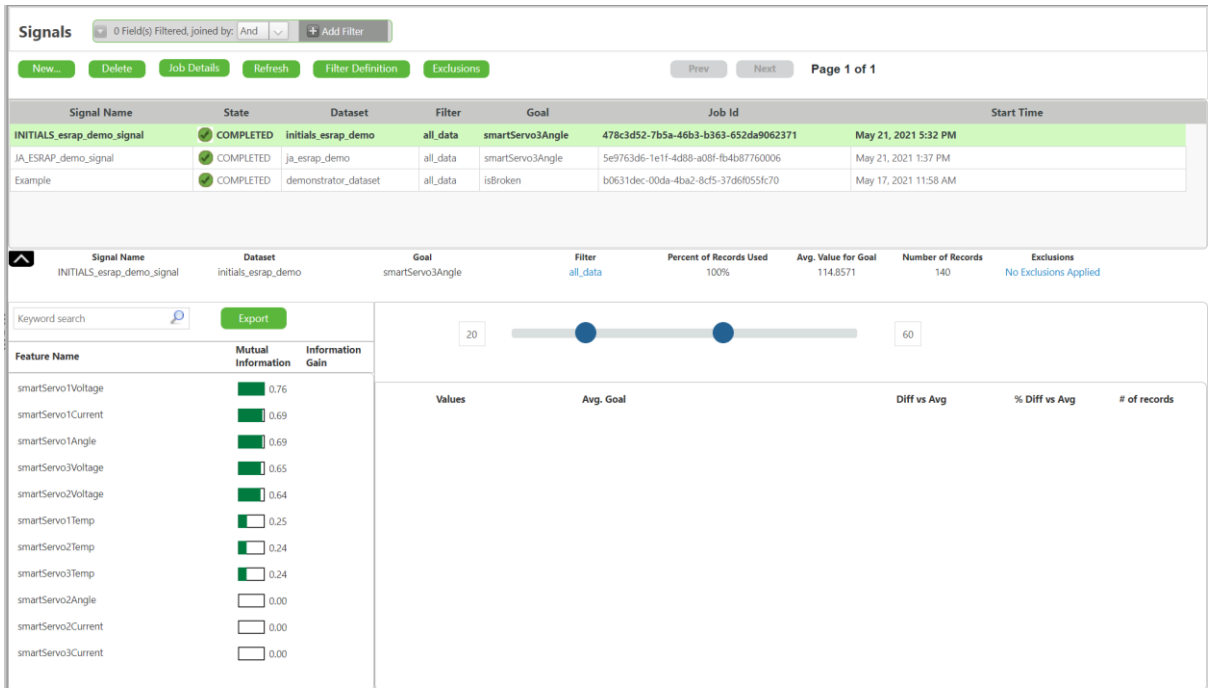
6. Navigate to Signals
    a. Create a new signal



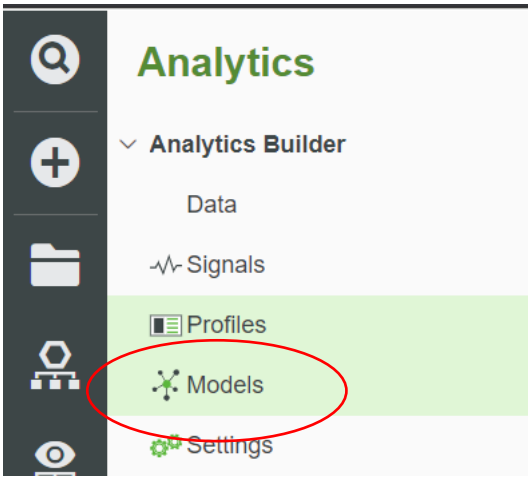
7. Enter Signal settings
    a. Name: INITIALS_esrap_demo_signal
    b. Dataset: Select your previously created Dataset
    c. Goal: Select SmartServo3Angle
    d. Filter: all_data
    e. -> Submit



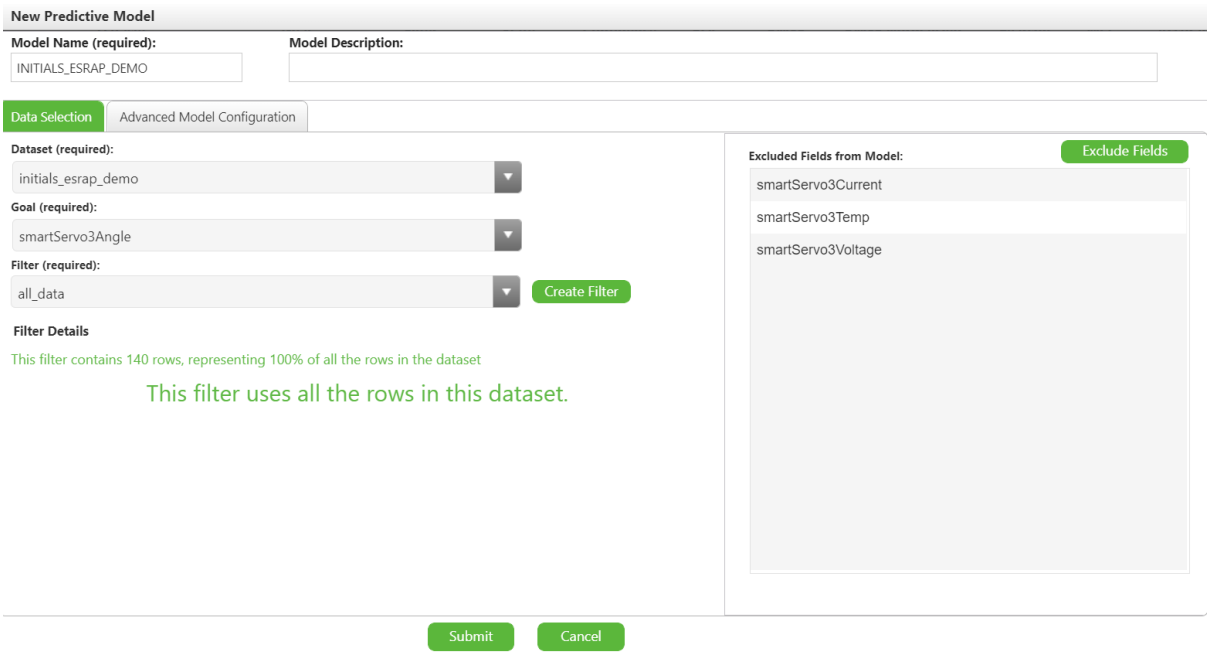
8. Review Signal results
    a. On the left side you can see the Feature Name and how much information it provides for the value of SmartServo3Angle (from 0 to 1), 0 means no mutual information



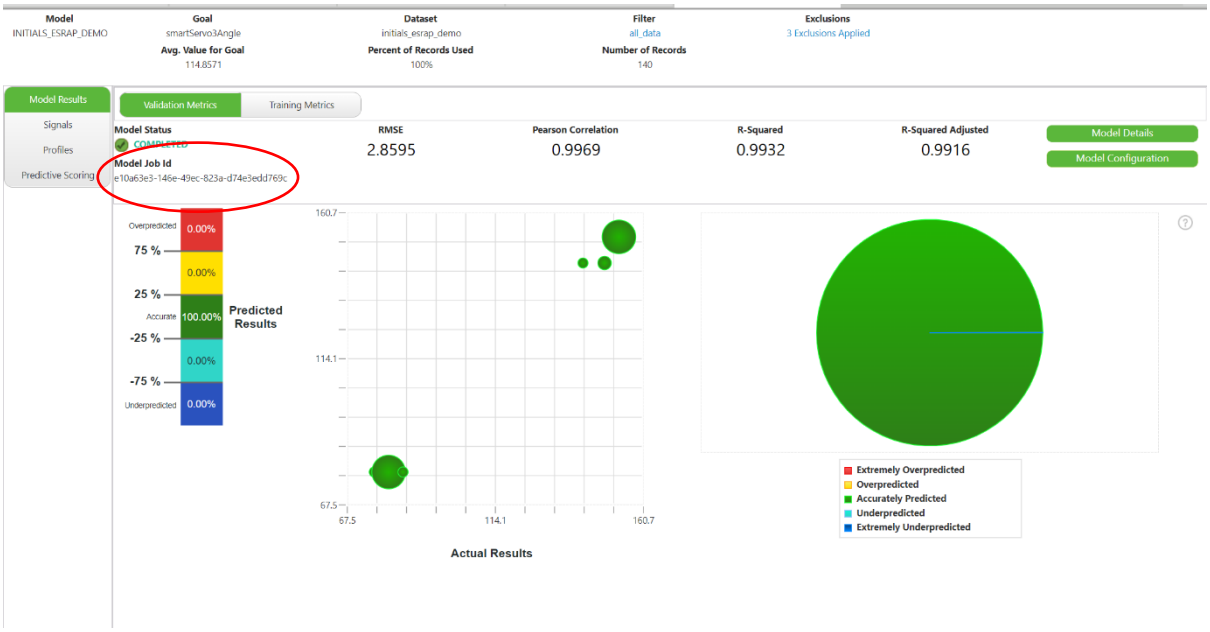
9. Navigate to Models



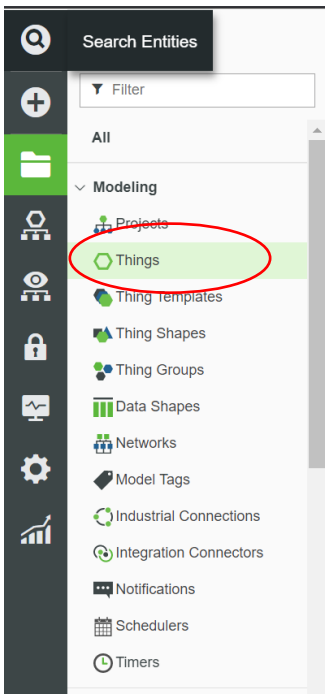
10. Create new Model
    a. Name: INITIALS_ESRAP_DEMO
    b. Dataset: name of the previously created dataset
    c. Goal: smartServo3Angle
    d. Exclude Fields (right side of the window)
        i. smartServo3Current
        ii. smartServo3Temp
        iii. smartServo3Voltage
    e. Submit



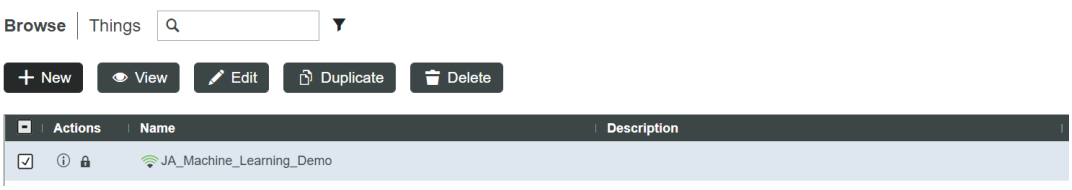
11. Wait until model state changes to Completed
12. Double click on created model
    a. Copy Model Job Id



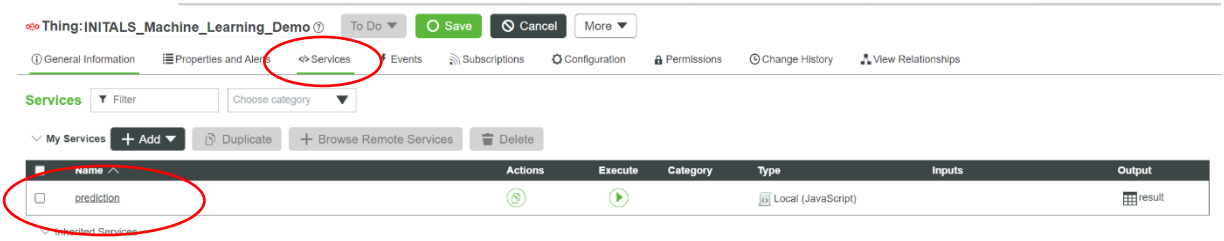
13. Navigate to Browse -> Things



14. Select JA_Machine_Learning_Demo and duplicate it



15. Enter details:
    a. Name: INITALS_Machine_Learning_Demo
    b. Project: ESRAP_2021_05_24
    c. Save
16. Navigate to Services and edit the prediction service:



17. On line 41 change the model URI to "results:/models/your URI here"