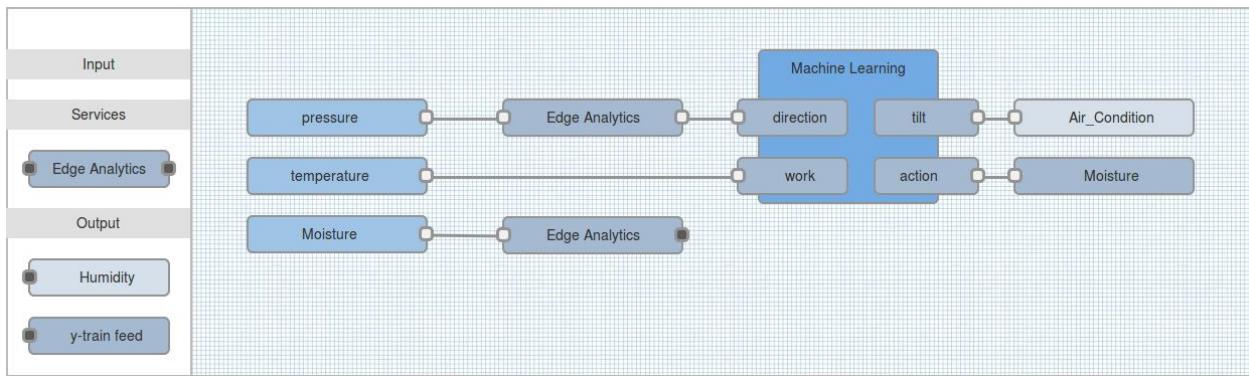


# How Paasmer's new feature the Edge Rules Engine helps to build intelligence and automation at the Edge

This blog will cover step by step instructions on how to use the Paasmer Edge Rules Engine to build intelligence and automation at the Edge with sample use cases

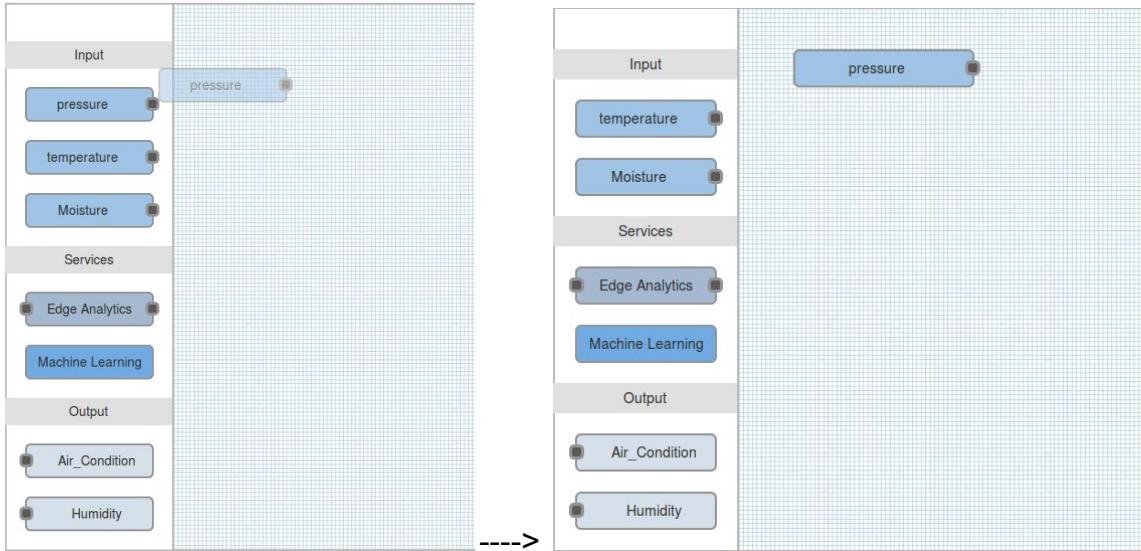
**The following use case explains how to create an Edge rule to use Edge Analytics and Machine learning services on the feeds and run control functions based on the pre-conditions to build automation**

- Decide on the details of the rule to be created with what feeds, what services, what conditions, what needs to be achieved and how can be achieved.
- Here is the example rule that is created using the Edge Analytics and Machine Learning



Step by step instructions

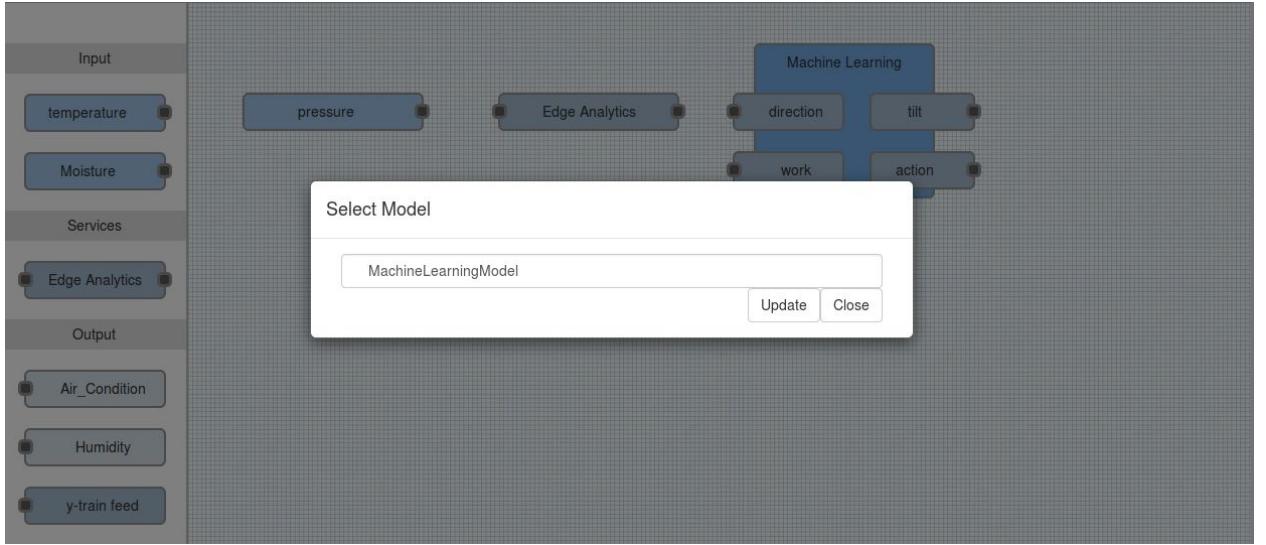
- Drag and Drop a sensor feed ( Input ).



- Drag and Drop Edge Analytics after sensor feed.

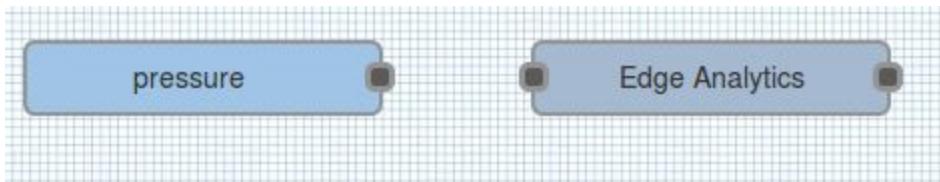


- Drag and Drop Machine Learning after Edge Analytics and Configure Machine Learning by clicking on the machine learning node. (Note: the Models that are created in ML are shown here, before configuring please create a model in ML with x-train and y-train values which you want to use here.)

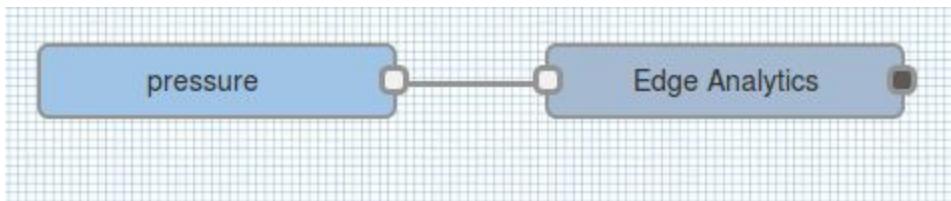


- Connect Sensor Feed ( Input ) to Edge Analytics by clicking the Right-hand side node of Sensor Feed and then by clicking the left-hand side node of Edge Analytics without much delay (Delay might cause some issues)

Before :

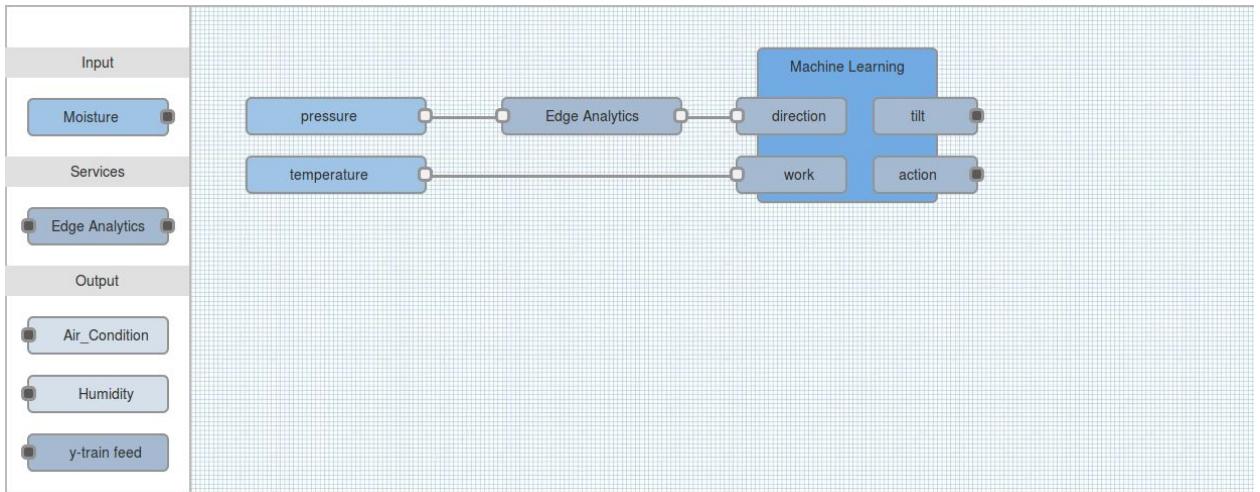


After :

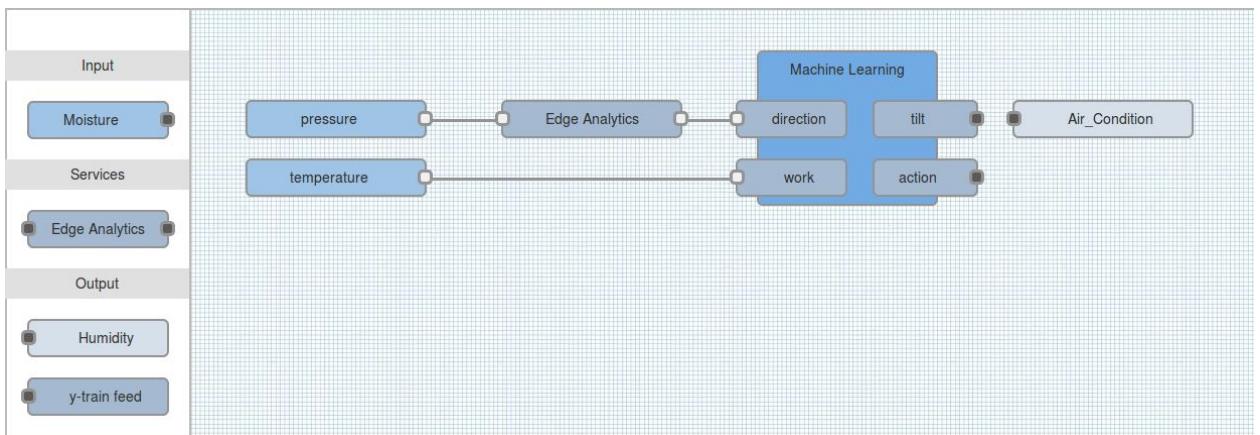


(Note: Once both the nodes turned to white you can continue with next selection)

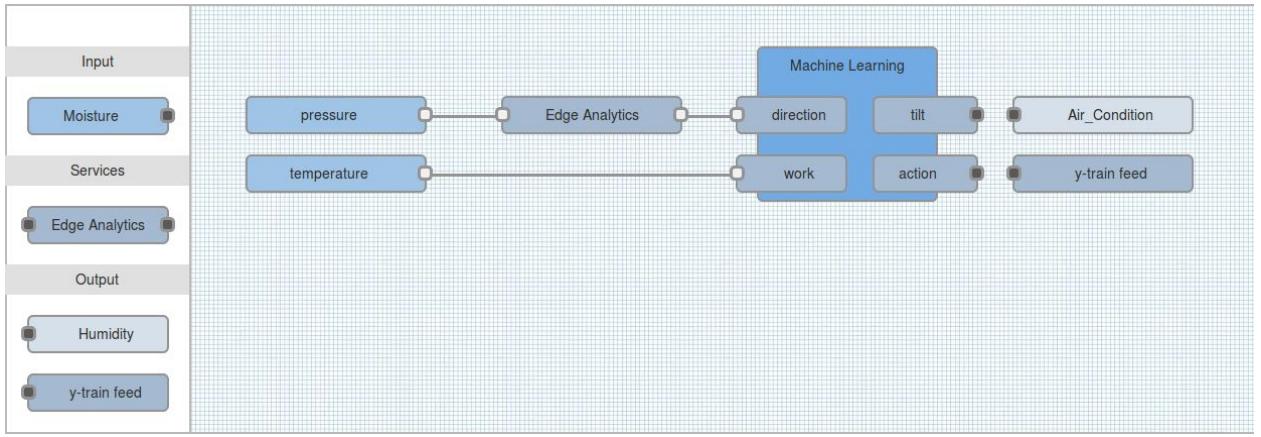
- Connect Edge Analytics to machine learning x-train feed and drag and drop second sensor feed and connect the second machine learning to this Sensor Feed.



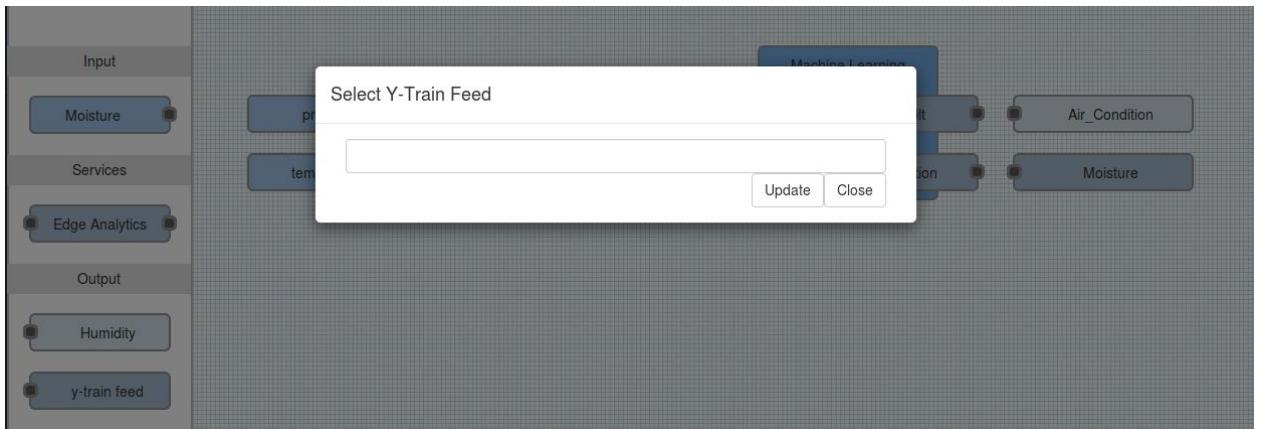
- Drag and Drop Output feed after machine learning



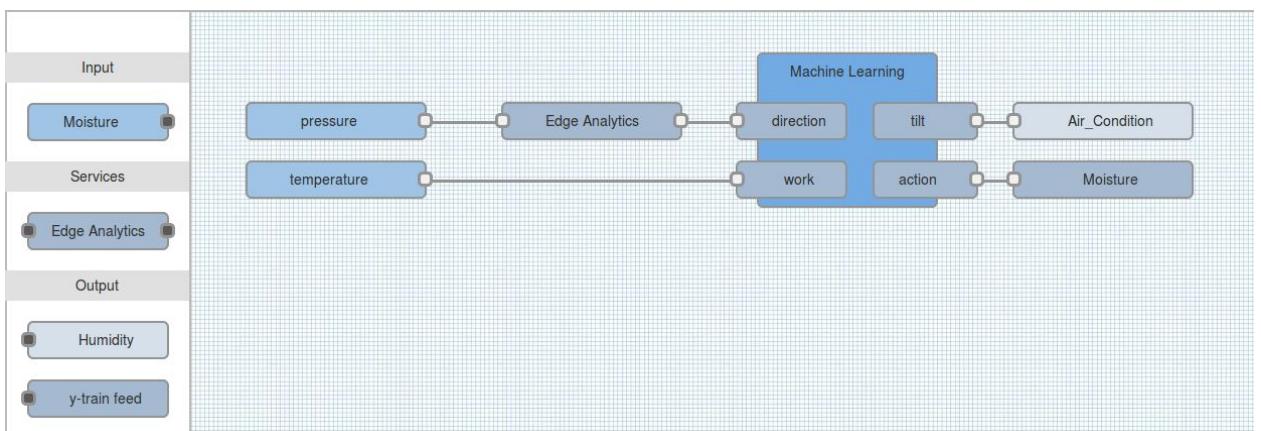
- Drag and Drop y-train feed as a virtual feed after machine learning.



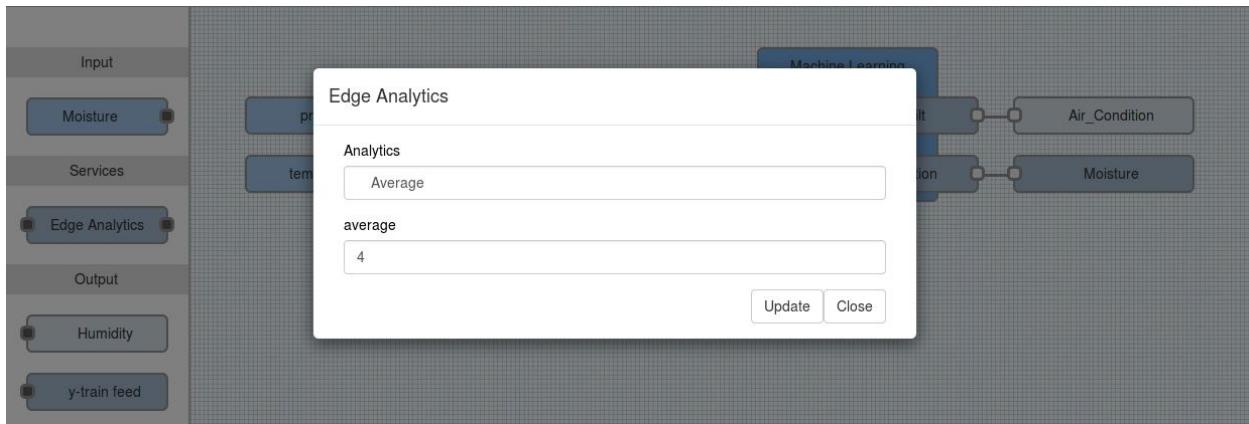
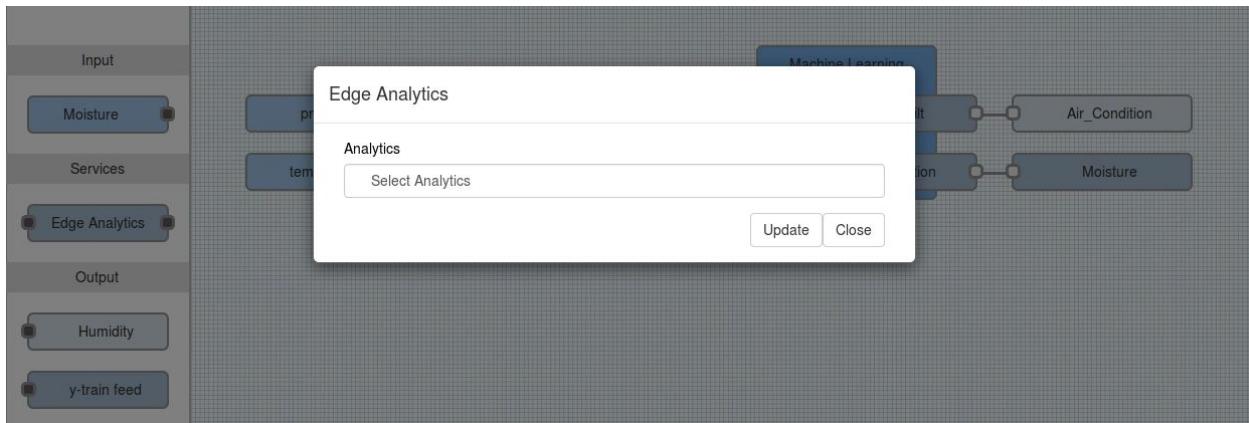
- Configure y-train feed to select output feed from the drop-down



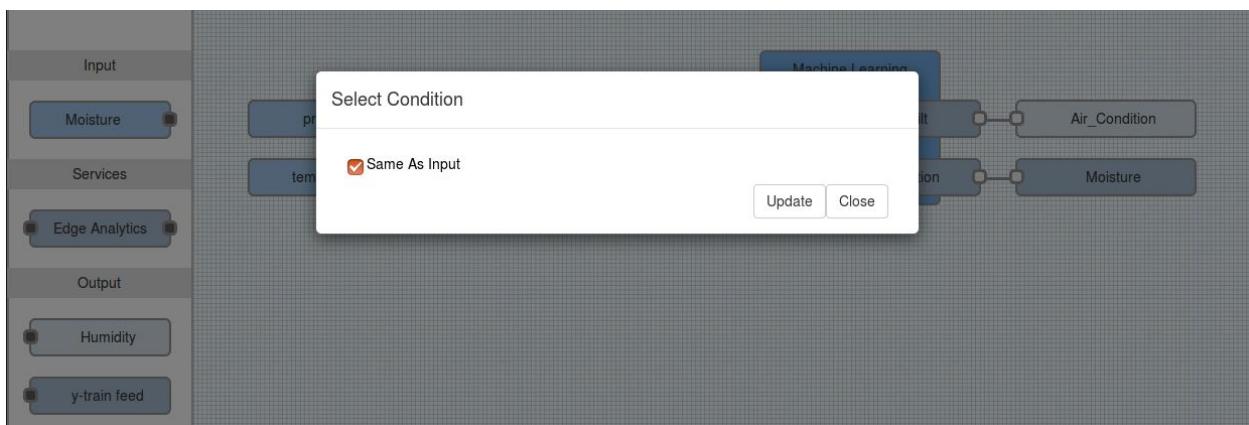
- Connect one of the Machine Learning y-train to output feed and another y-train to configured virtual feed (Moisture) for y-train feed

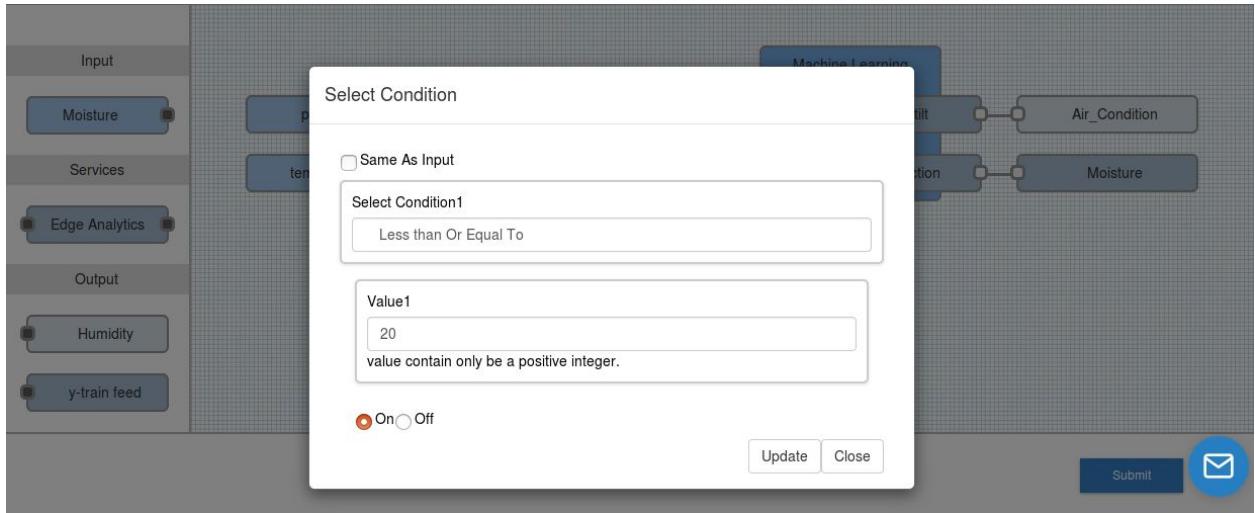


- Configure Edge Analytics, select any one of the analytics type (Feed Monitoring, Filter, Average and Aggregate) based on the need.



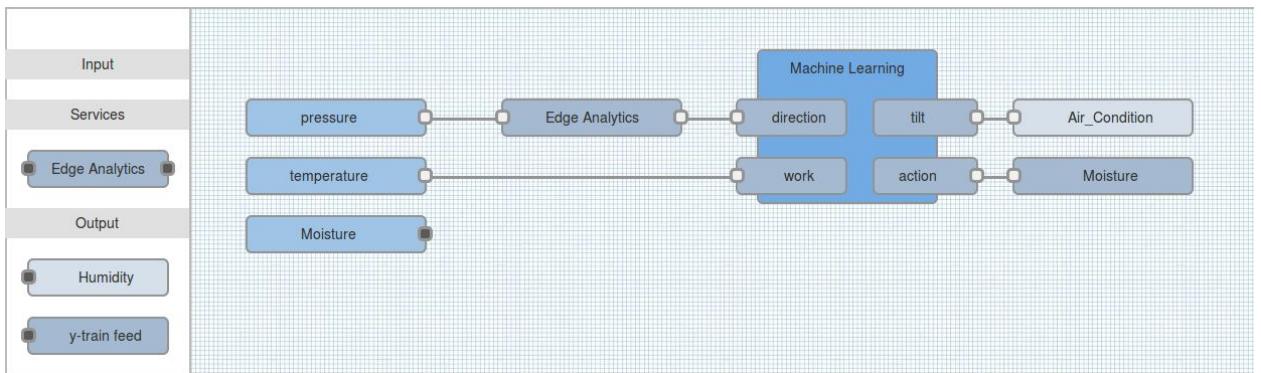
- Configure Output Feed, check or uncheck same as input ( if unchecked select the condition you want to apply for that output feed select the value for that condition and select the action that needs to be performed)



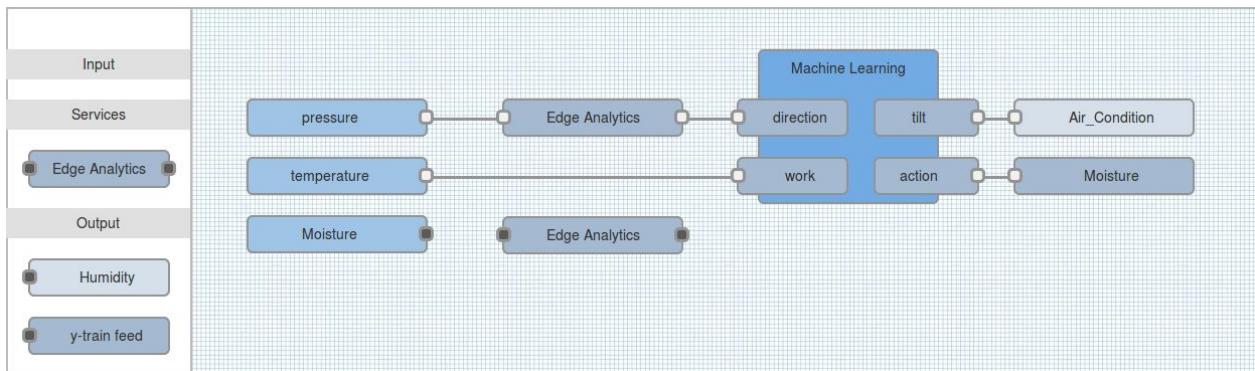


### Steps to add Edge Analytics for y-train value

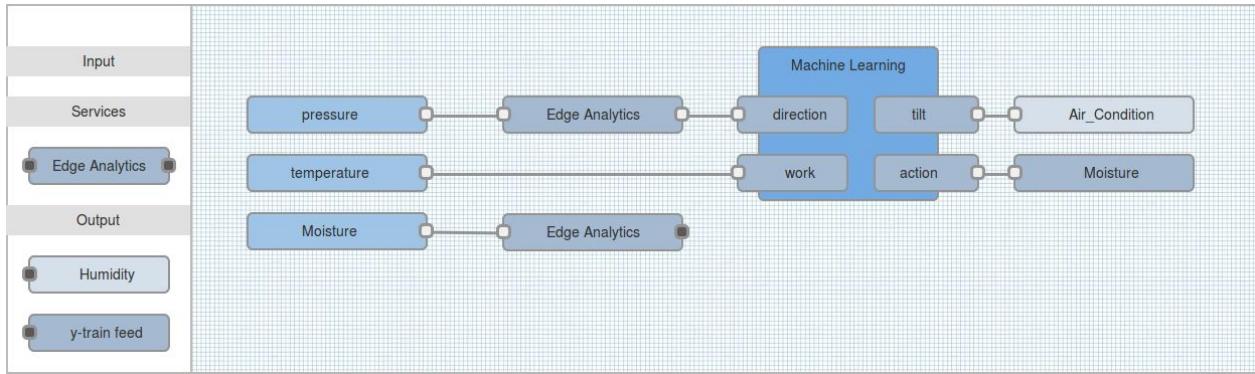
- Drag and drop sensor feed which you have selected in y-train feed.



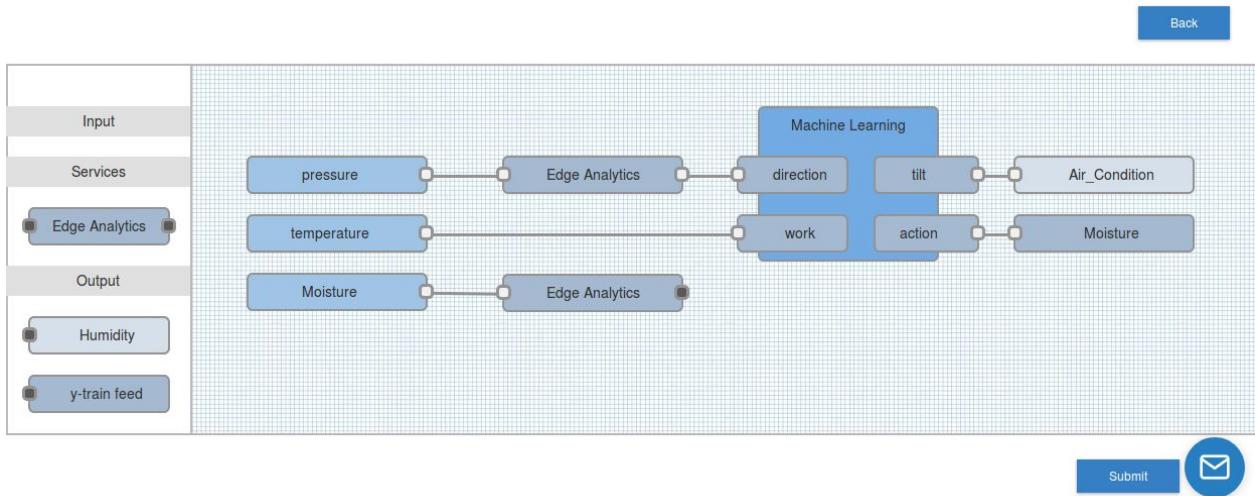
- Drag and drop Edge analytics,



- Connect the sensor feed to Edge Analytics and Configure Edge Analytics.

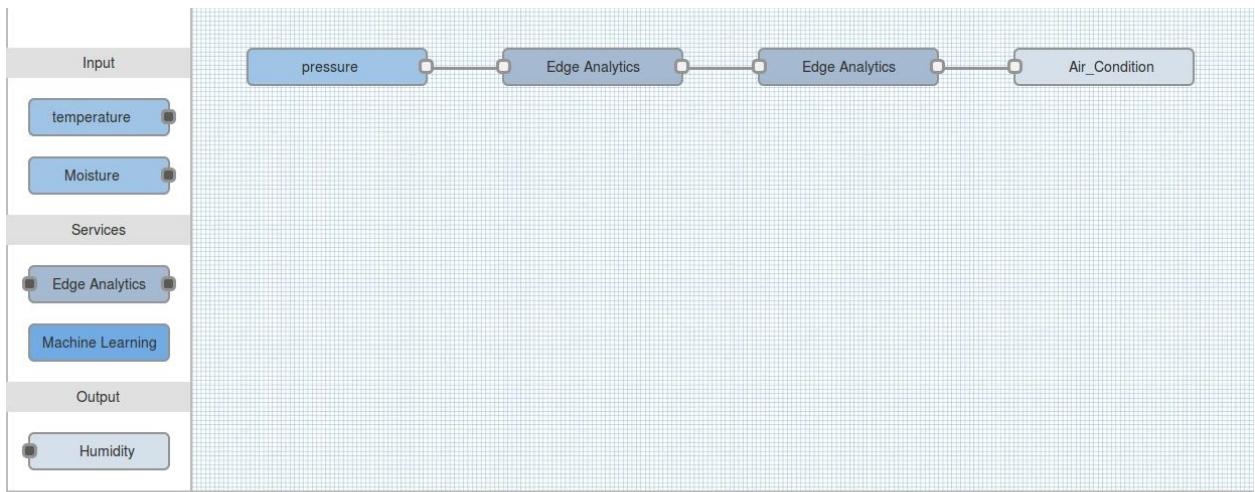


- If all the nodes are connected and the configurations are made, click on submit to create the rule.

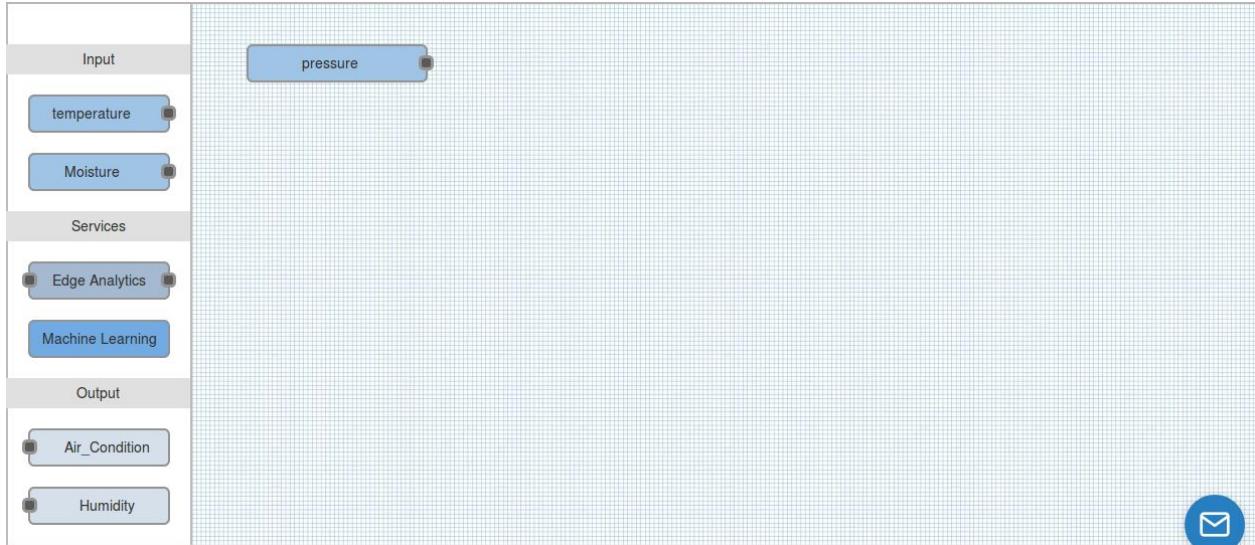


**The following use case will cover step by step instructions on how to create an Edge Rule using Edge analytics services. This is also applicable to learn how to use the Paasmer web application UI to configure Edge analytics and configure the automation on EA outputs based on conditions**

- Decide on the details of the rule to be created with what feeds, what services, what conditions, what needs to be achieved and how can be achieved.
- Here is the example rule that is created using the Edge Analytics



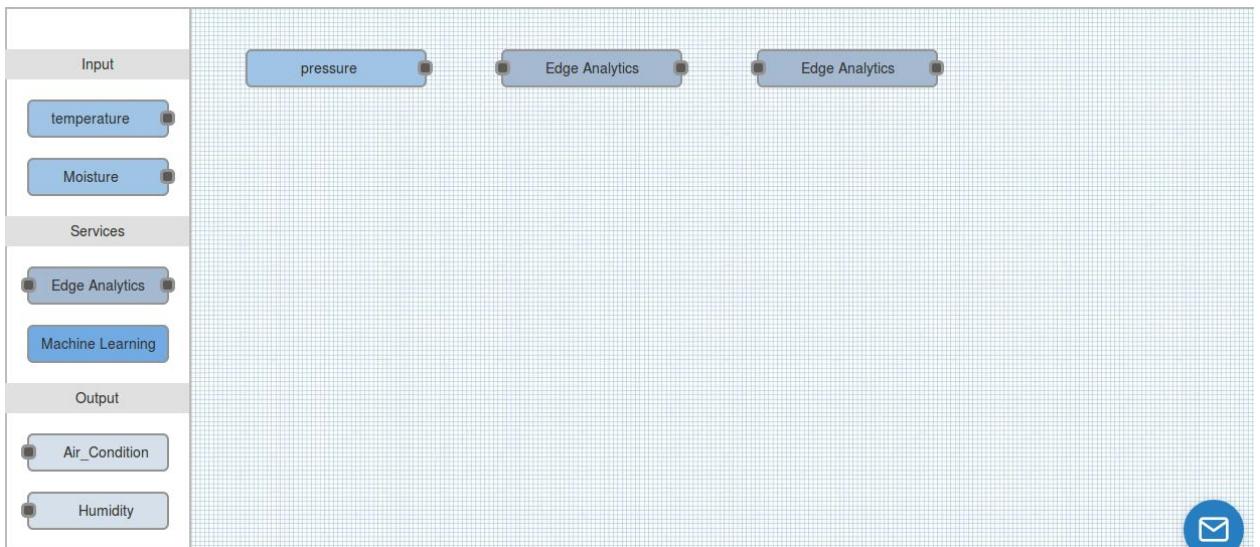
- Drag and Drop a sensor feed.



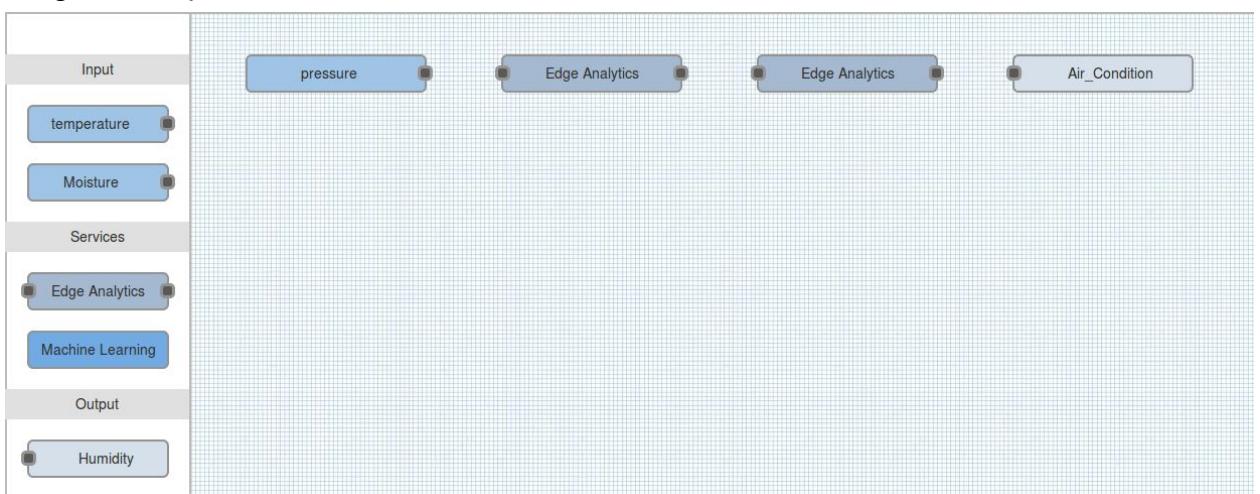
- Drag and Drop Edge Analytics after sensor feed.



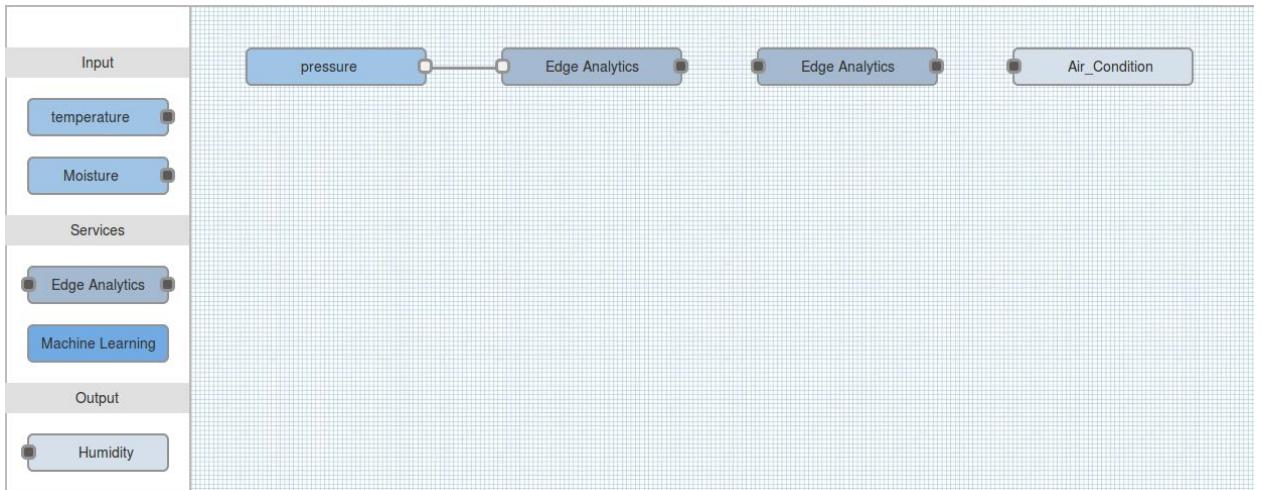
- Drag and Drop another Edge Analytics after the first Edge Analytics.



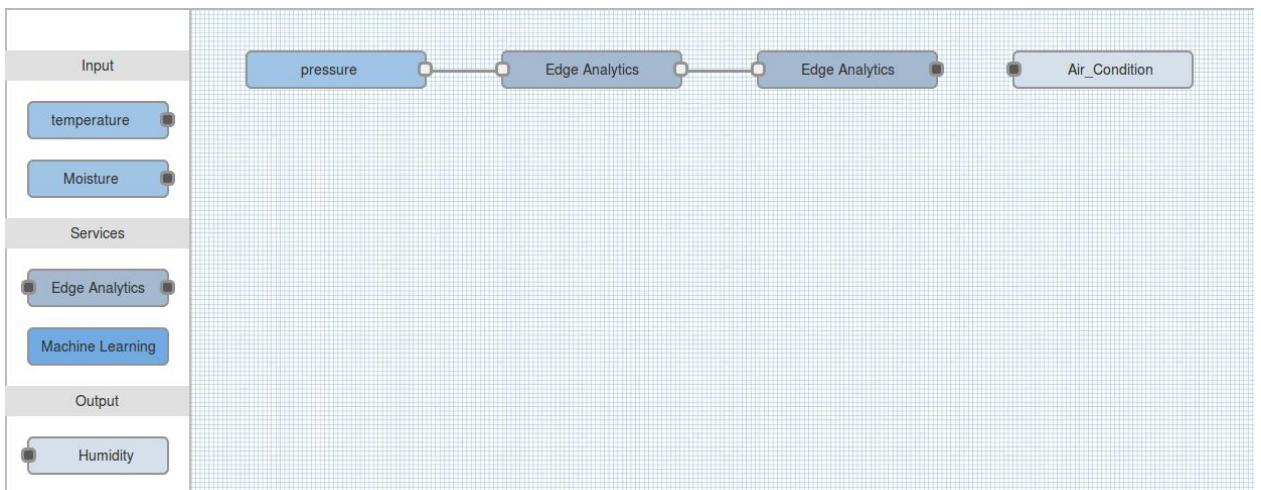
- Drag and drop Actuator Feed.



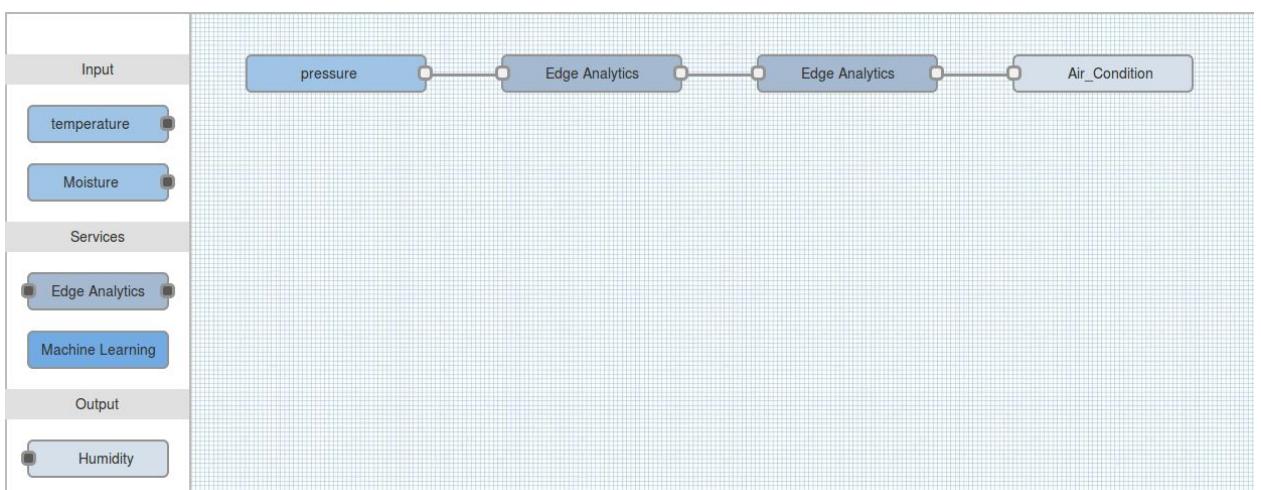
- Connect Sensor Feed to Edge Analytics,



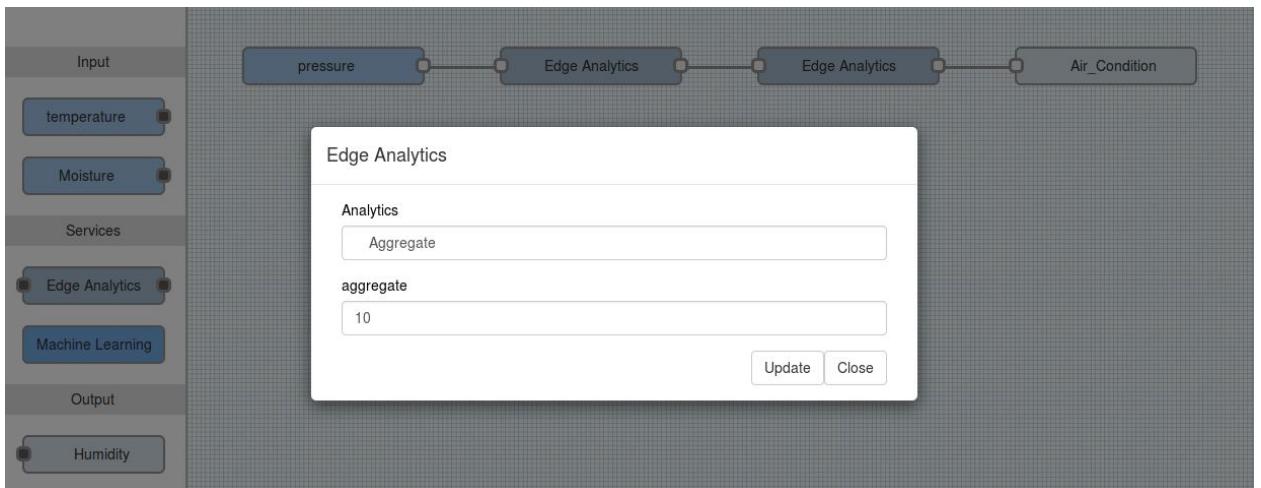
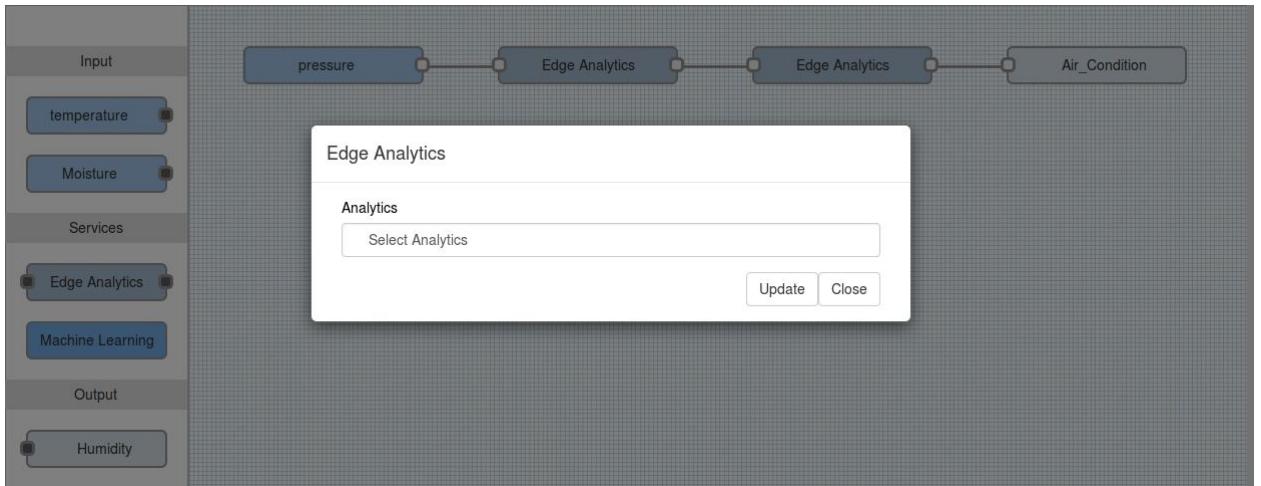
- Connect First EA to Second EA,



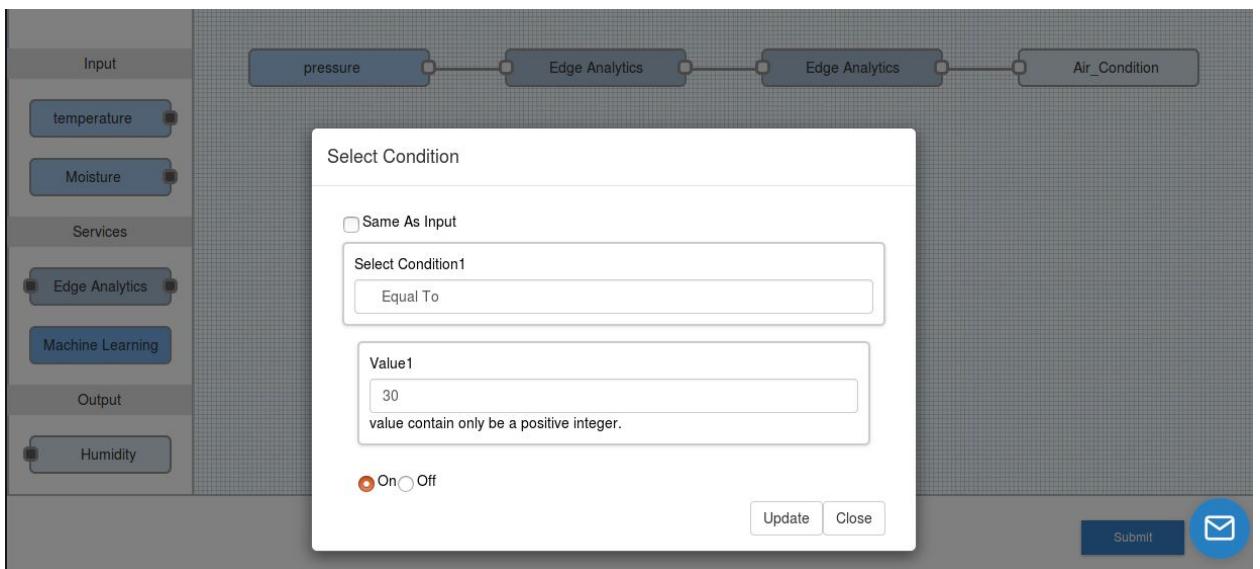
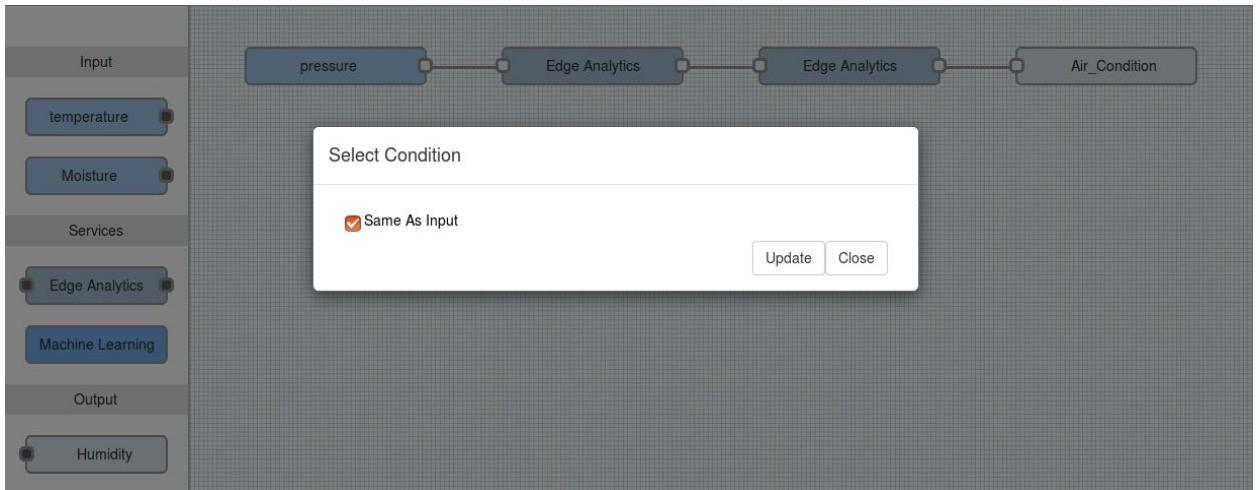
- Connect the second EA to Actuator.



- Configure both Edge Analytics, select any one of the analytics type (Feed Monitoring, Filter, Average and Aggregate).

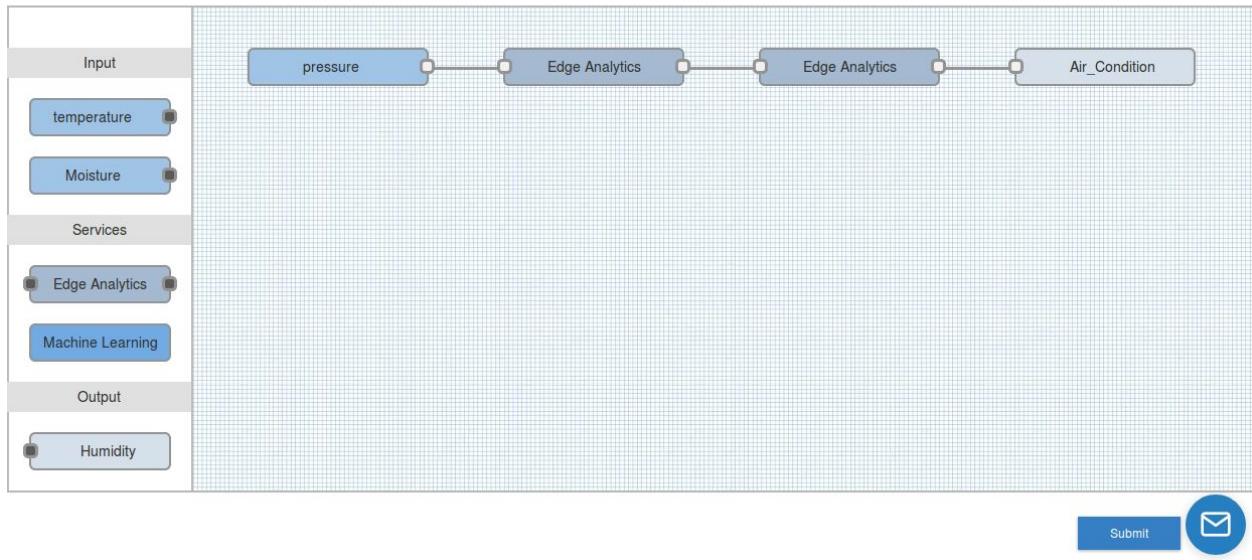


- Configure Output Feed, check or uncheck “Same As Input” ( if unchecked, select the condition to apply for that output feed select the value for that condition and select the action that needs to be performed)



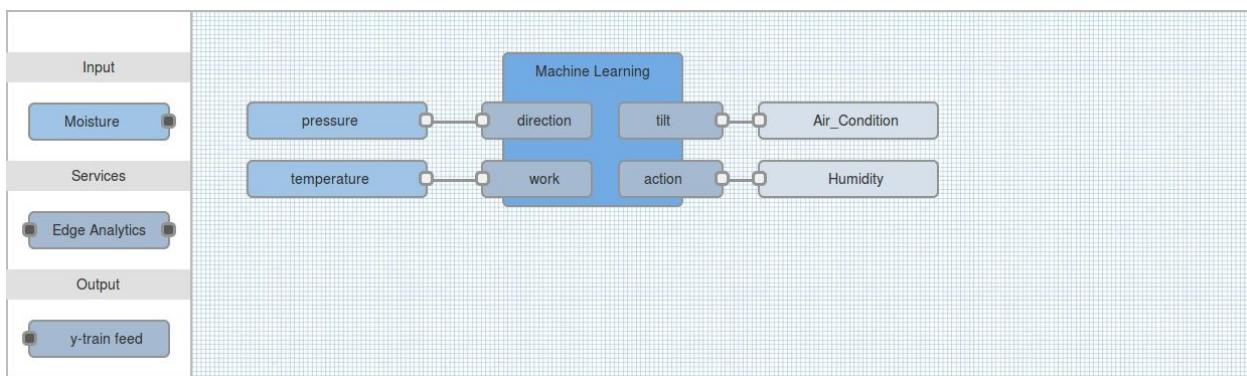
- If all the nodes are connected and the configurations are made, click on Submit to create the rule.

Back

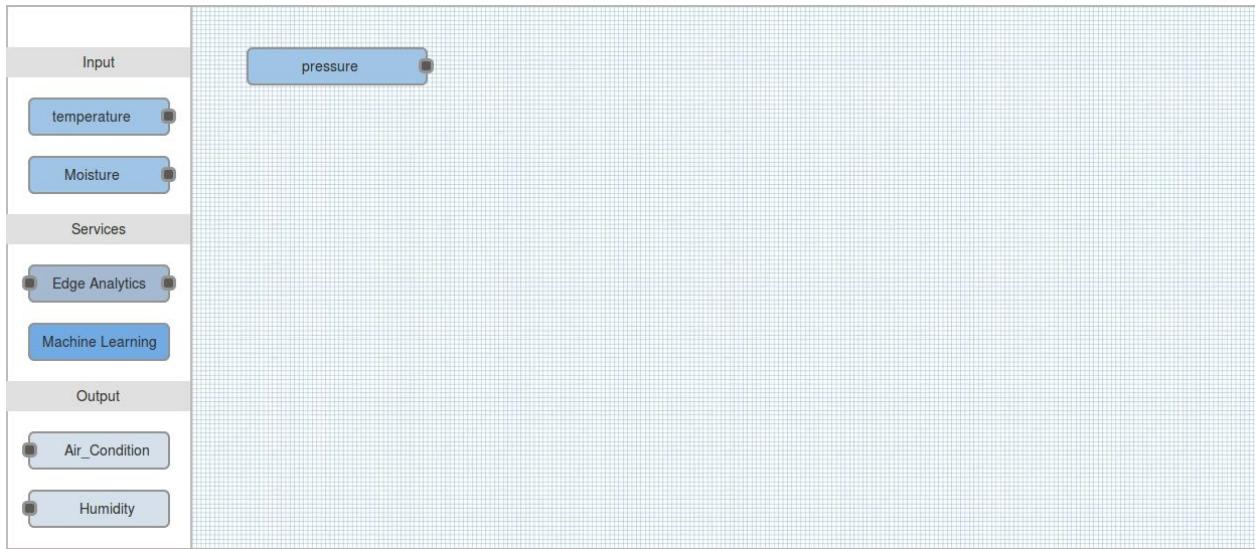


**The following use case cover on how to use Machine learning service to create an Edge Rule and this is also applicable to learn how to configure Machine learning for ML execution after training and deployment.**

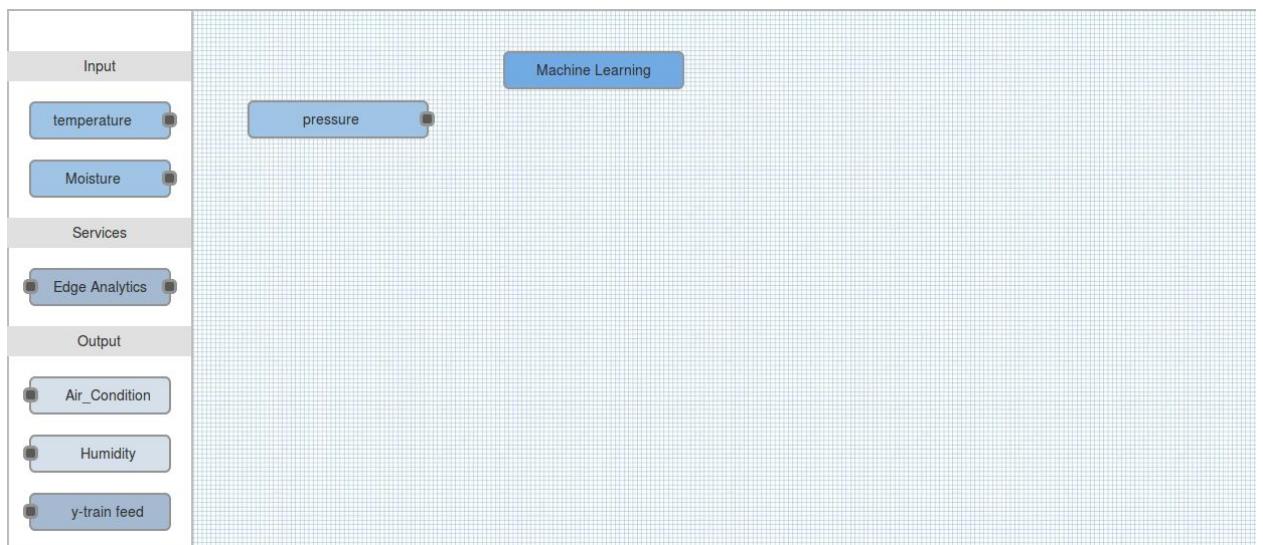
- Decide on the details of the rule to be created with what feeds, what services, what conditions, what needs to be achieved and how can be achieved.
- Here is the example rule that is created using the Machine Learning only.



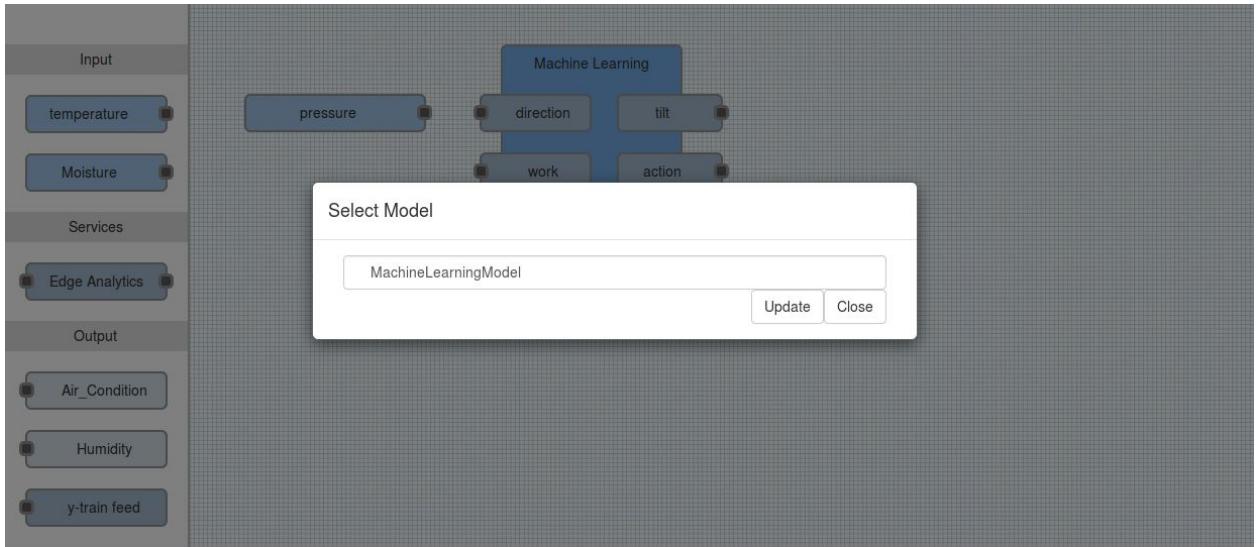
- Drag and Drop a sensor feeds



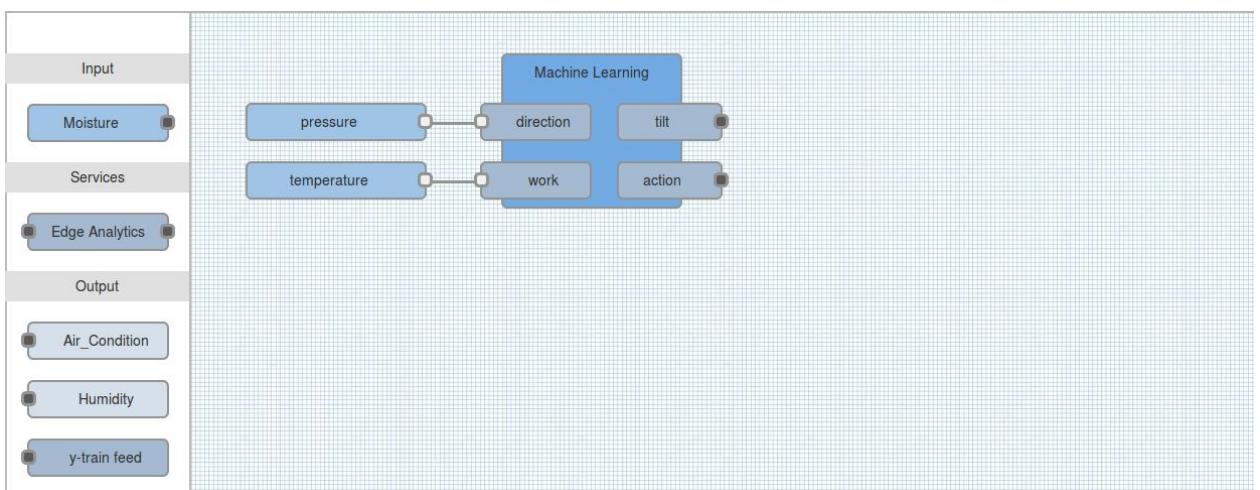
- Drag and Drop Machine Learning after Sensor Feeds



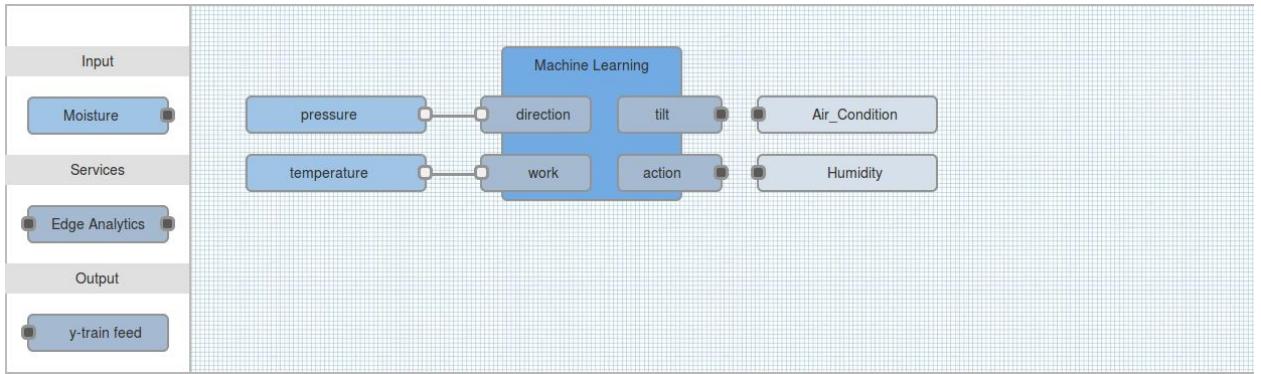
- Configure Machine Learning.



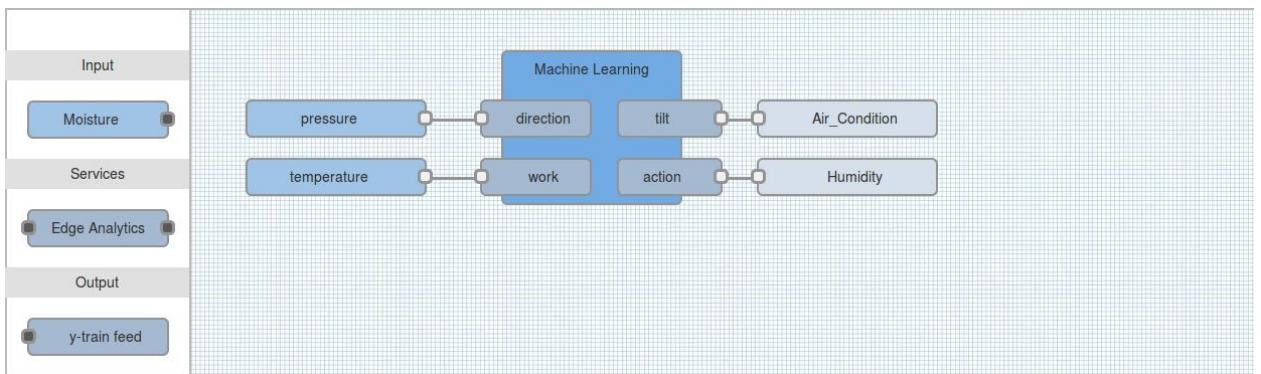
- Connect the machine learning x-train feed to sensor feeds.



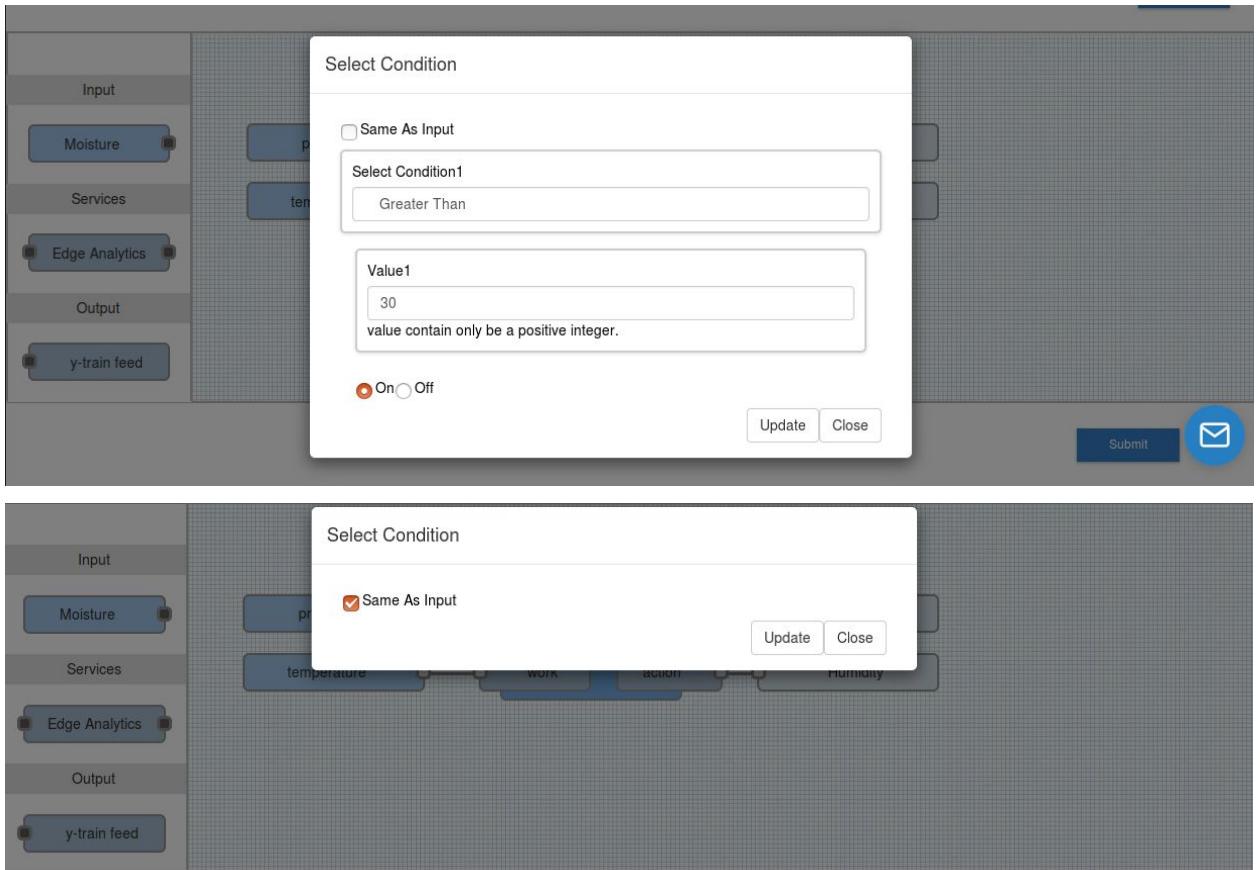
- Drag and Drop Output feed after machine learning.



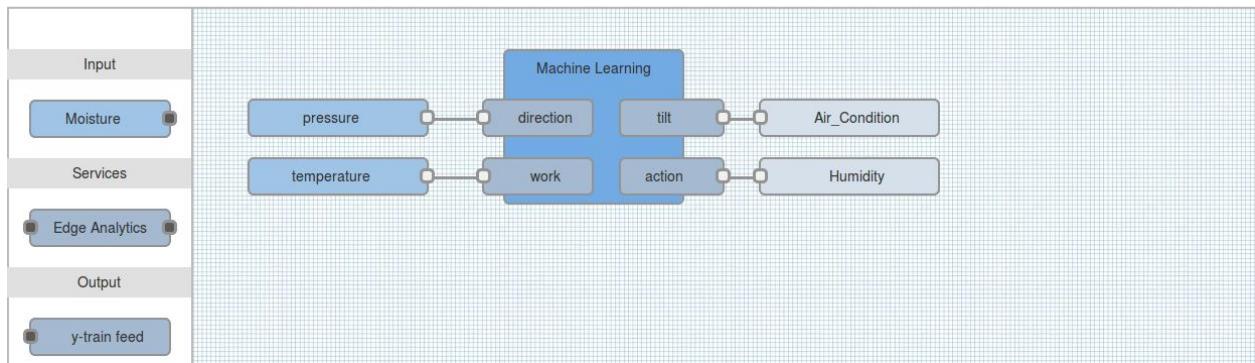
- Connect machine learning y-train feeds to Output feeds



- Configure Output Feed, check or uncheck “Same As Input” ( if unchecked select the condition you want to apply for that output feed and select the value for that condition abd select the action that needs to be performed)

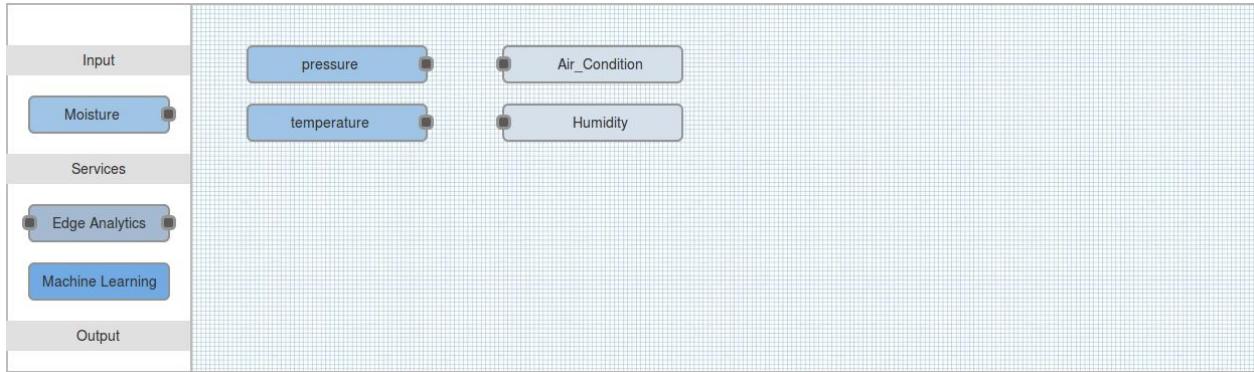


- If all the nodes are connected and the configurations are made, click on submit to create the rule.

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**The following use case cover steps by instruction on how to create rules only with Actuator and Sensor feeds with preconditions**

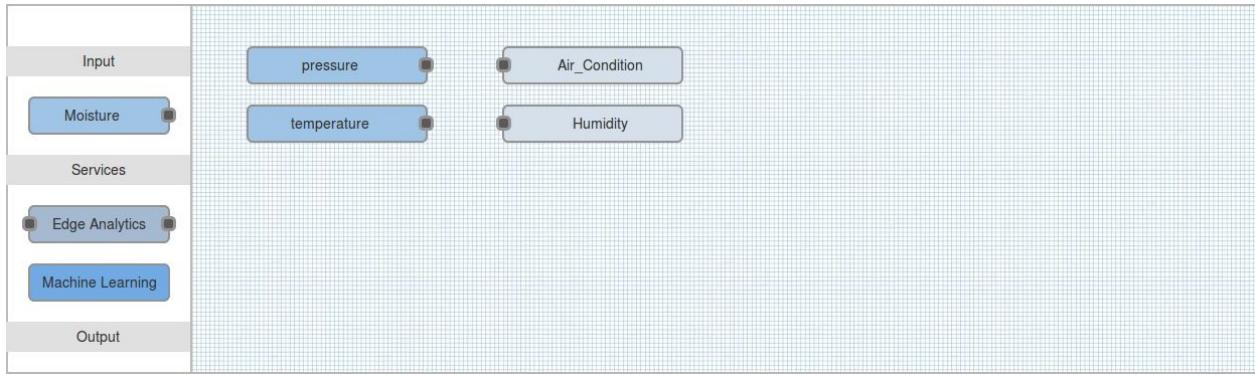
- Decide on the details of the rule to be created with what feeds, what conditions, what needs to be achieved and how can be achieved.
- Here is the example rule that is created using sensors and actuators only



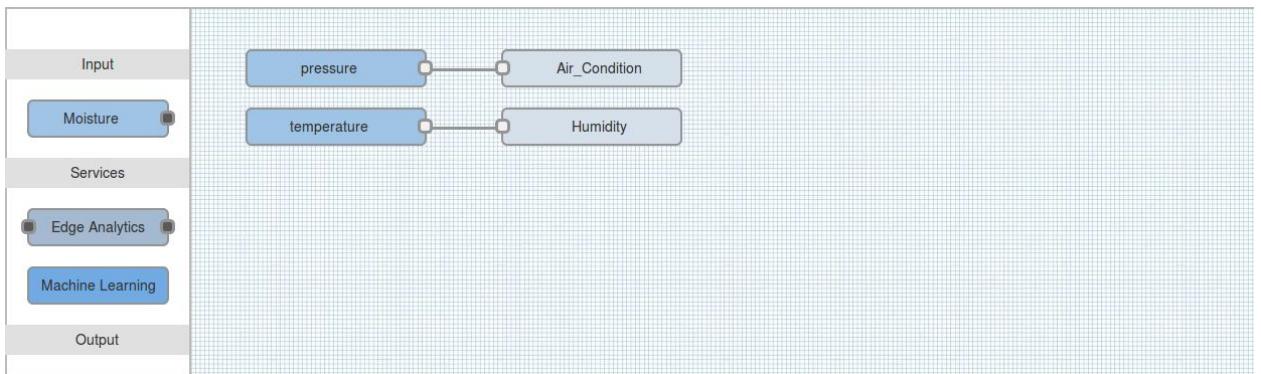
- Drag and Drop a sensor feeds



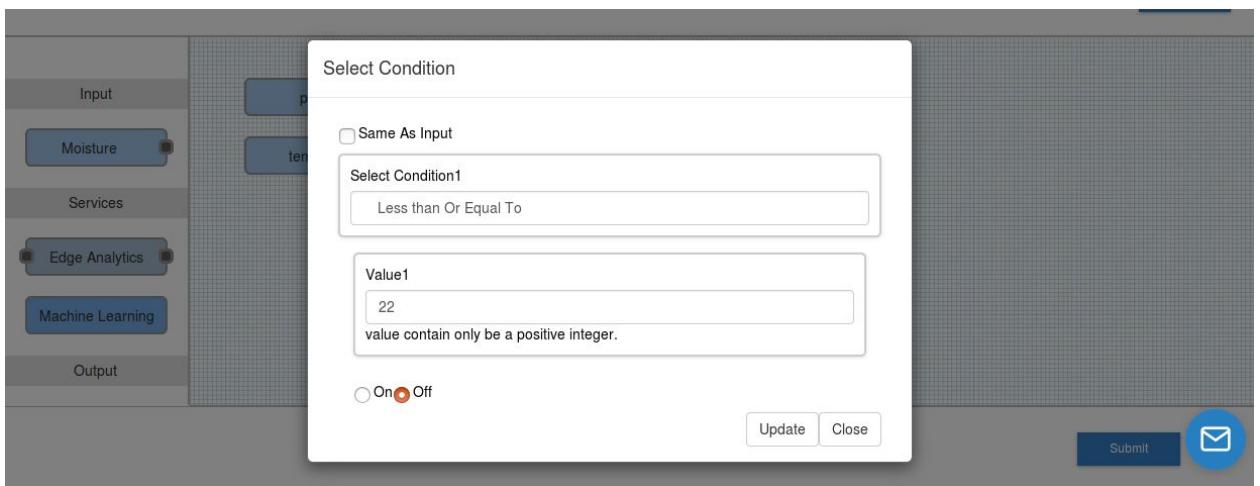
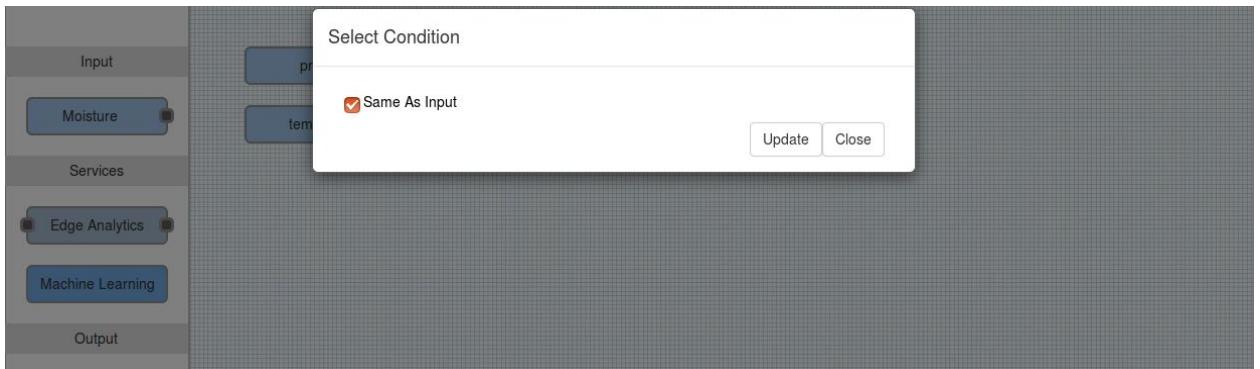
- Drag and Drop Output feeds



- Connect Sensor Feeds to Actuator Feeds



- Configure Output Feed, check or uncheck “Same As Input” ( if unchecked, select the condition you want to apply for that output feed to select the value for that condition and select the action that needs to be performed)



- If all the nodes are connected and the configurations are made, click on submit to create the rule.

