SmartInternz Gurucool Project

Project Title

Predict heart failure using IBM Auto AI service

Output snapshots

Prepared by

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Procedure

1. Open Watson studio
2. Create a project
3. Add auto AI experiment
4. Create a ML instance
5. Associate ML instance to project
6. Load the dataset to cloud object storage
7. Select the prediction parameter in the dataset
8. Train the model
9. Deploy it – we get an API
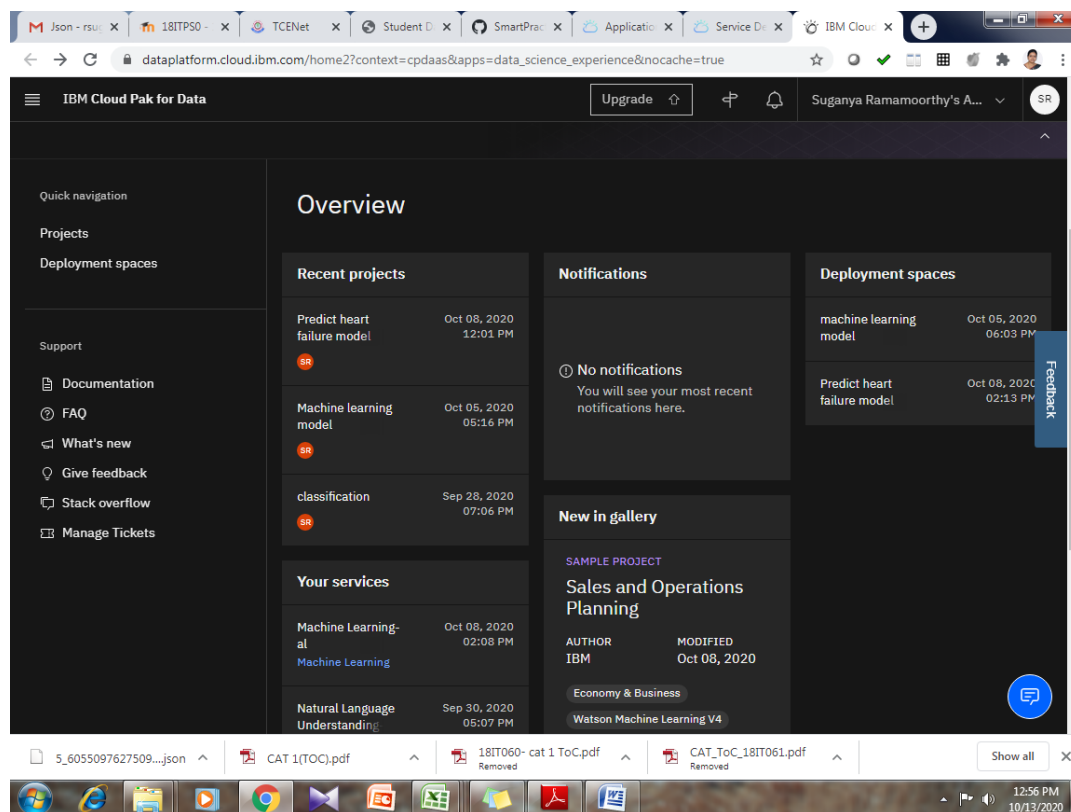10. Build web applications using Node-red

Figure 1: Open Watson studio from Dashboard->Services and create a project

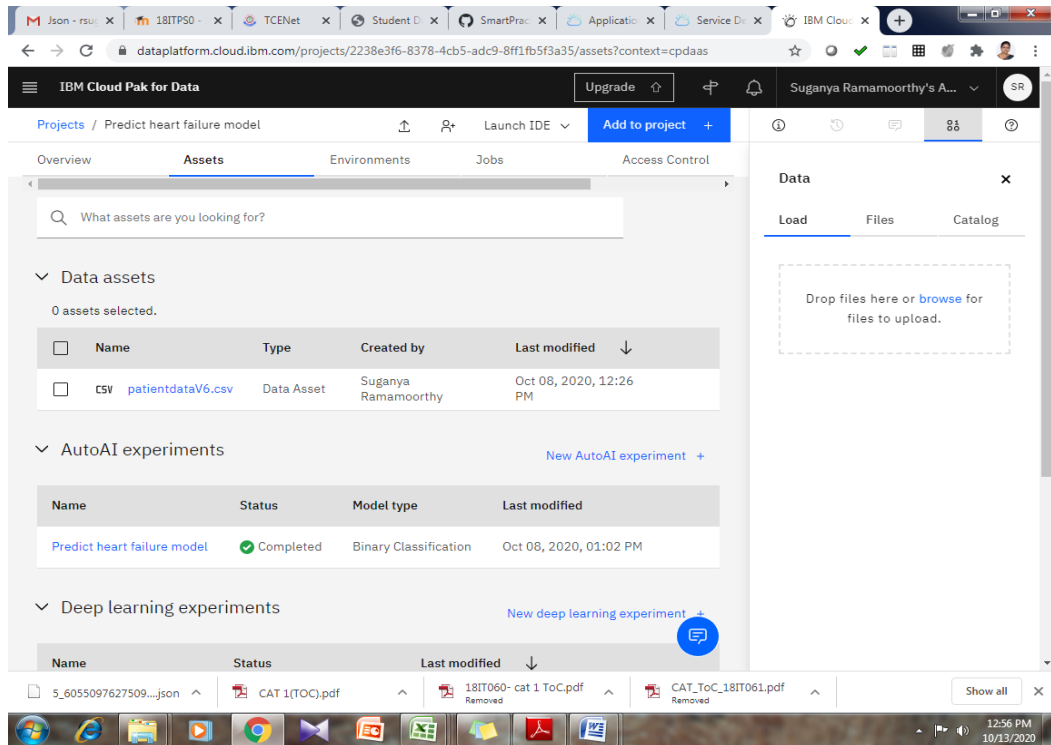Project Title: Predict heart failure model

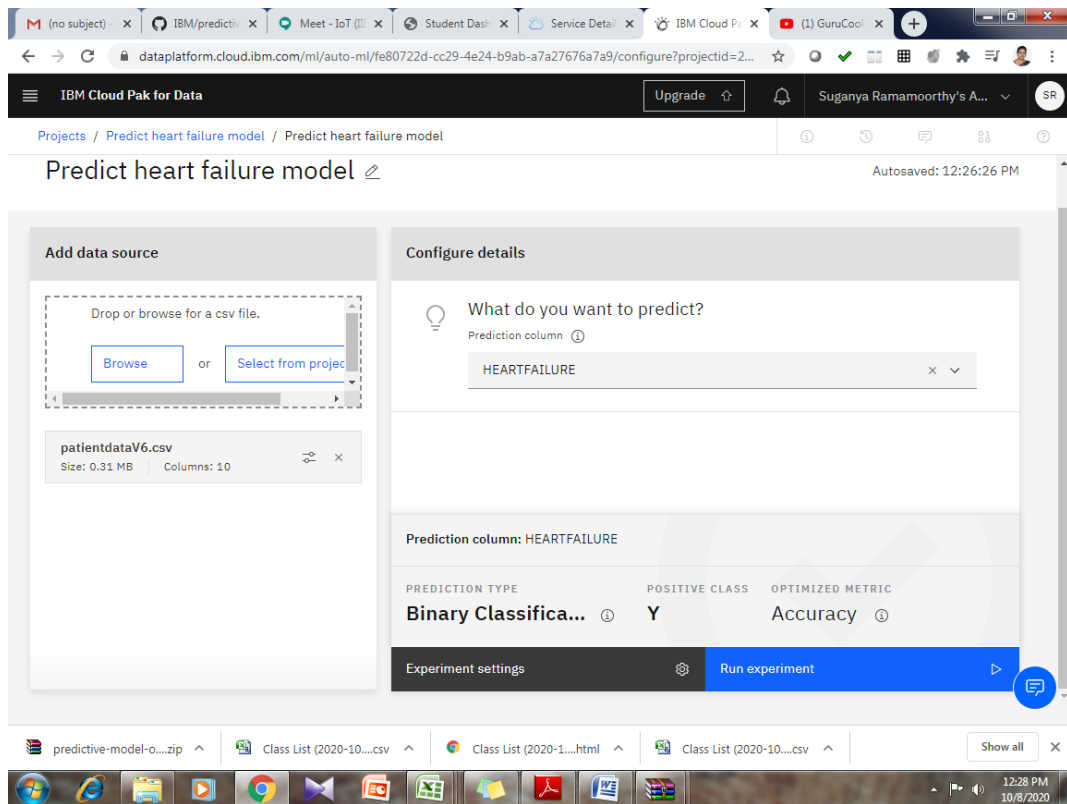Figure 2 shows Auto AI experiments and dataset added

Figure 3: Predict heart failure model- Binary Classification
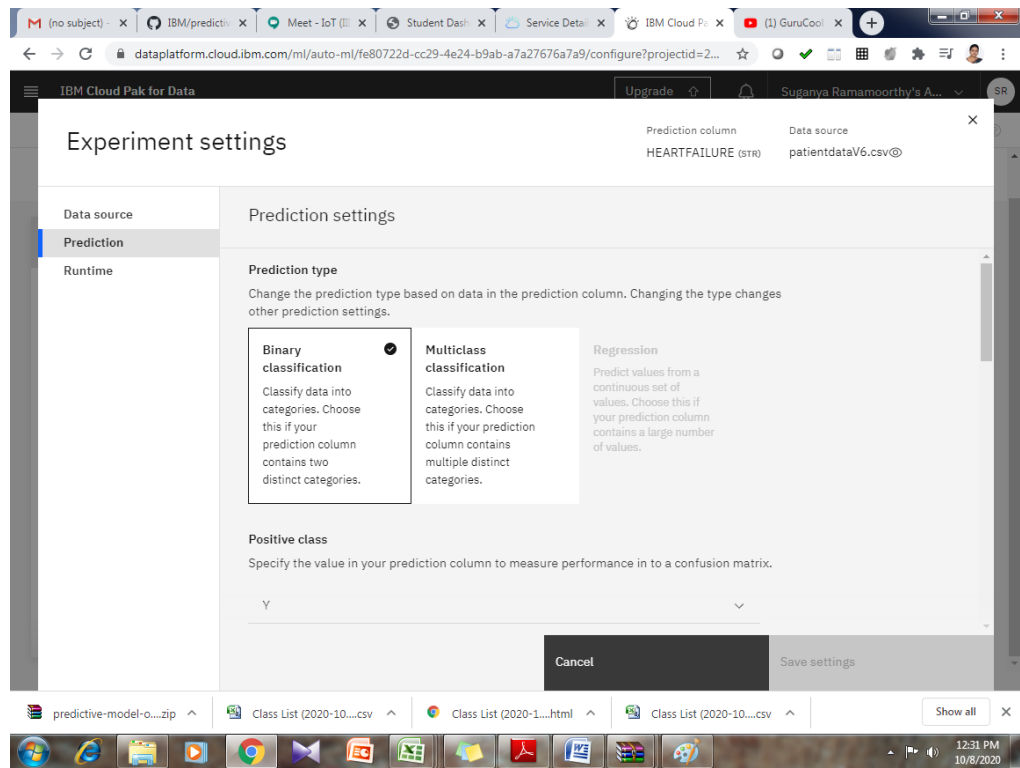
Figure 4 : Displays prediction settings as Binary classification
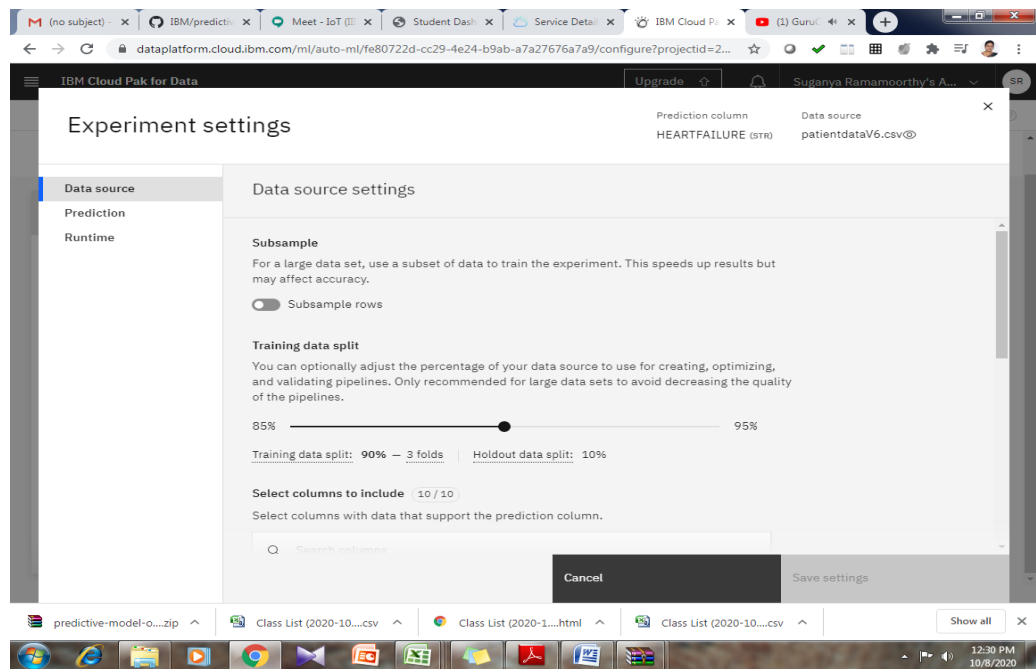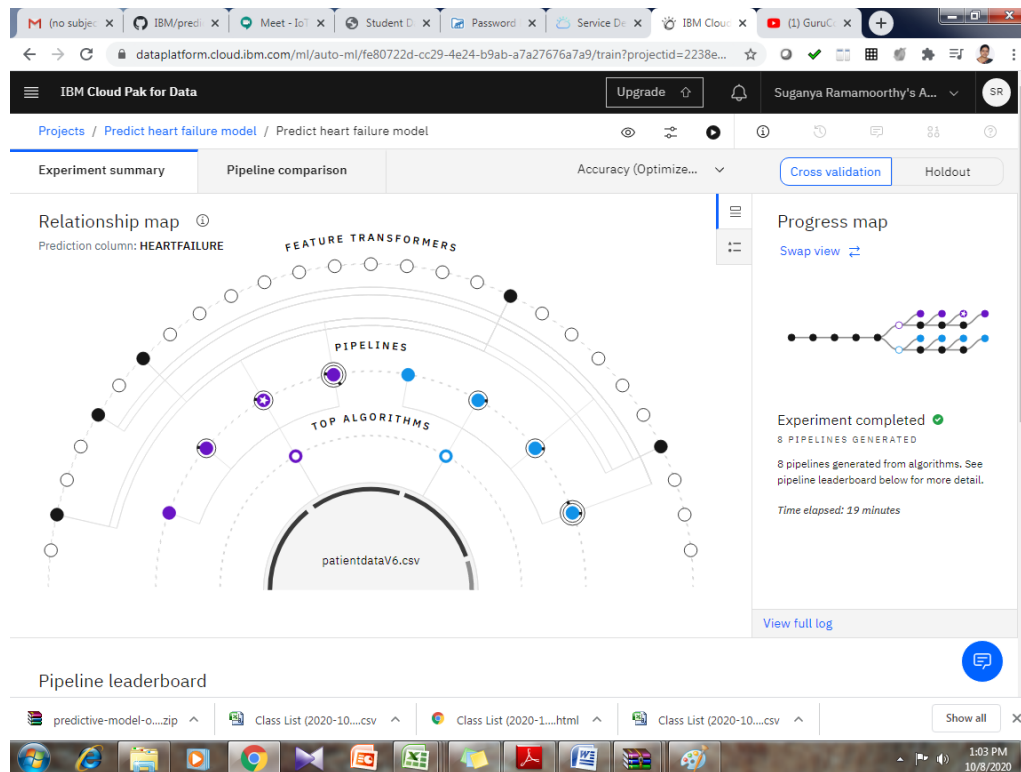

Figure 5: Experiment settings

Figure 6: Relationship map / Progress map for heart failure dataset

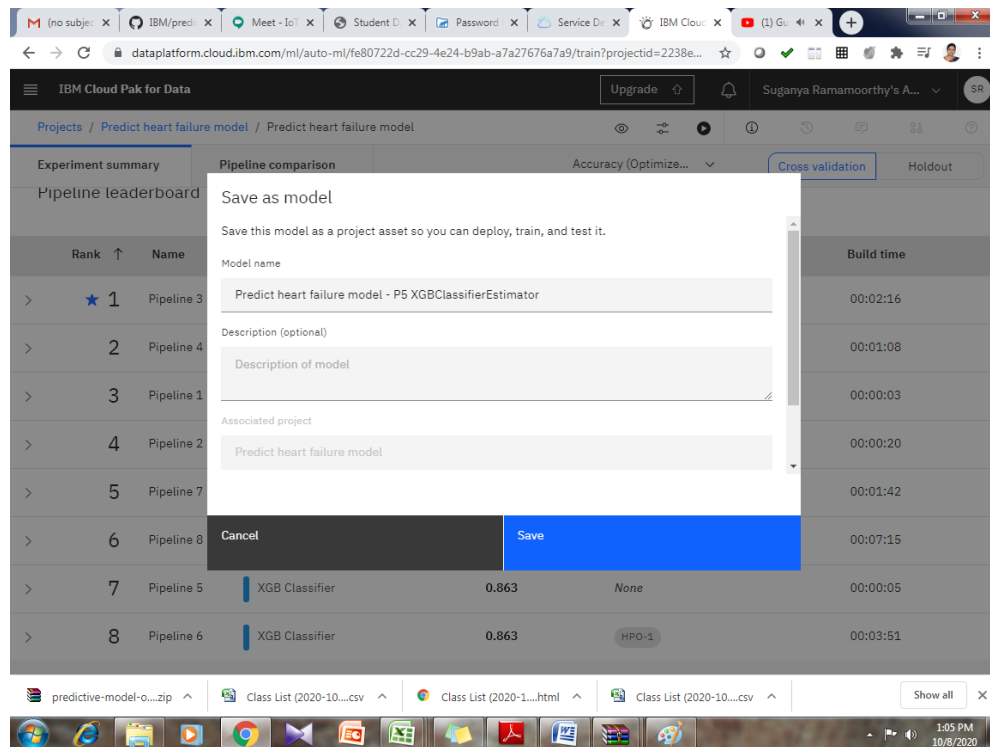Figure 7: Pipeline comparison

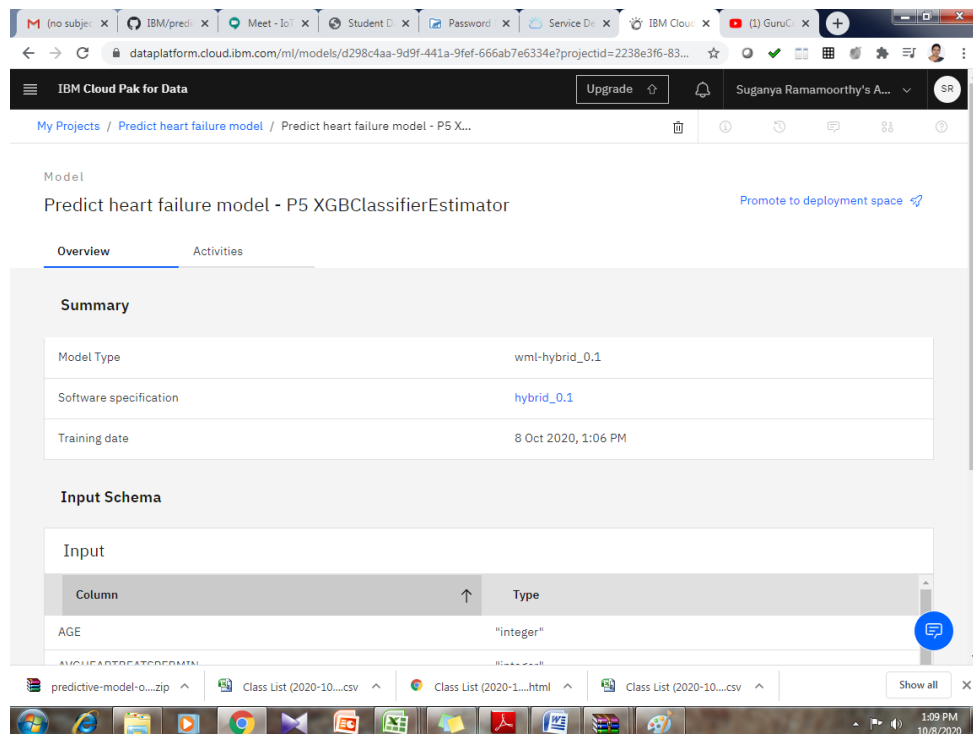Figure 8: Model name: Predict heart failure model- P5 XGBClassifierEstimator
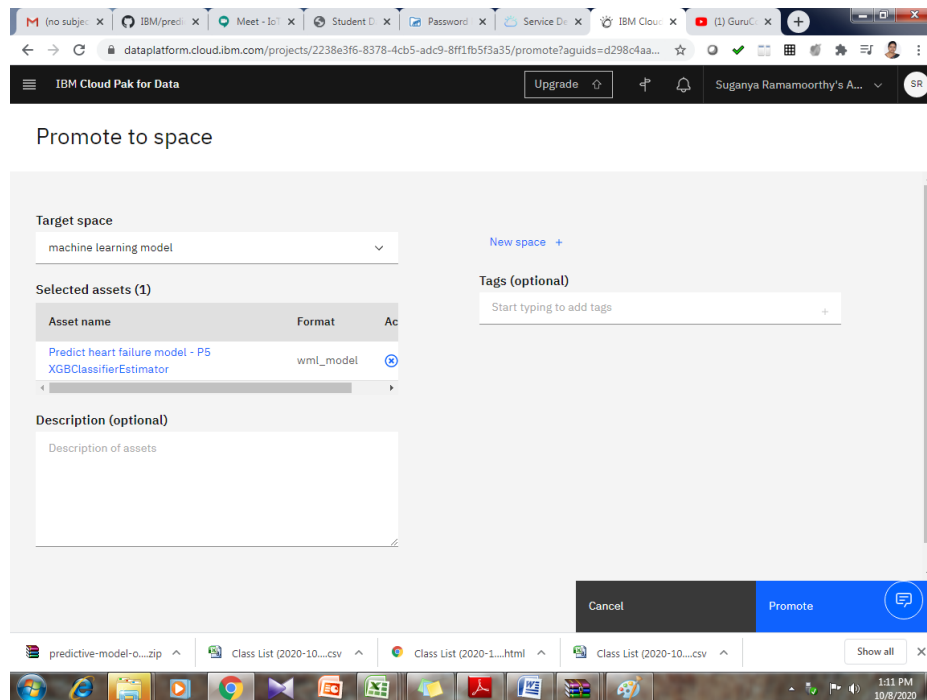

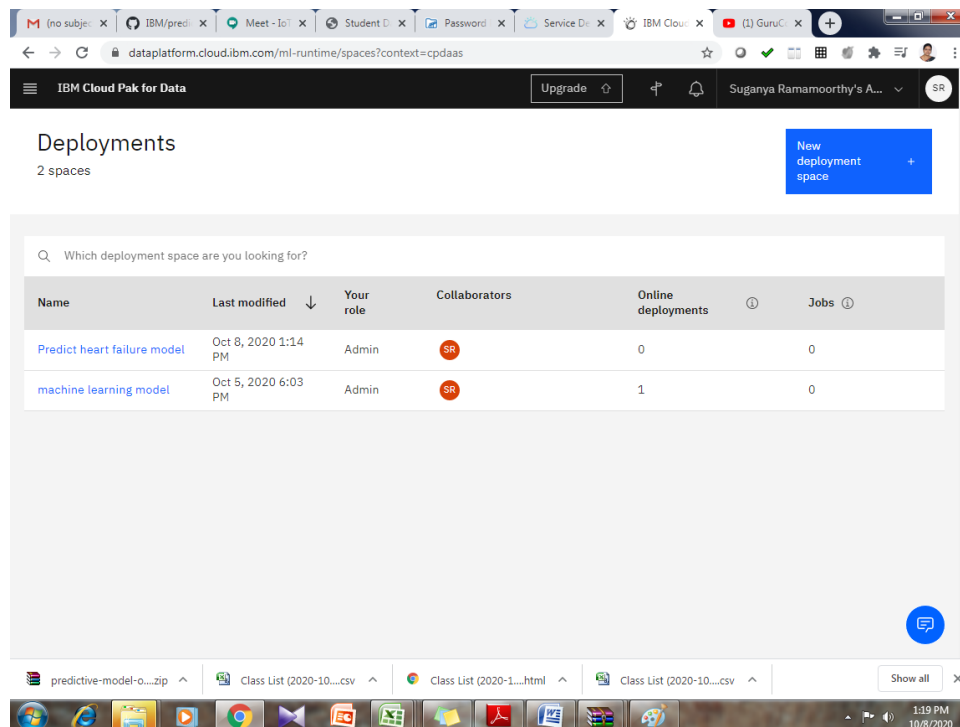Figure 9: Promote deployment space

Figure 10: Promoted deployment space
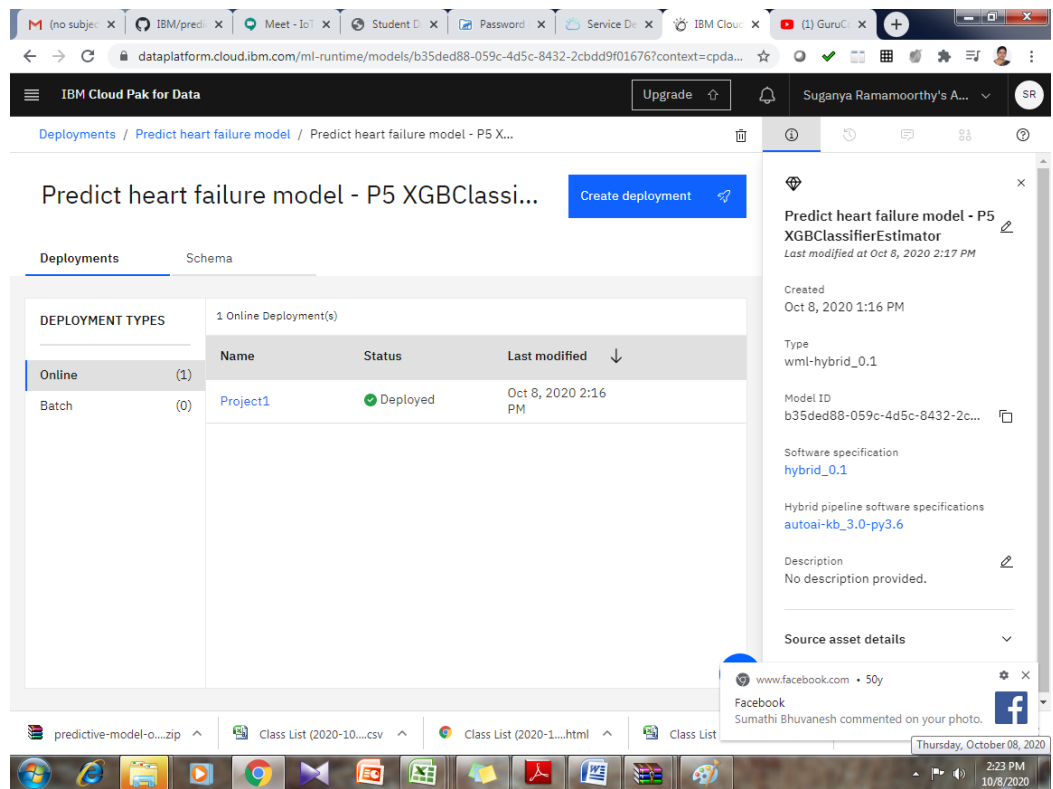

Figure 11: Deployments

Figure 12 : Online mode of deployment

Endpoint

```
https://us-south.ml.cloud.ibm.com/ml/v4/deployments/4a40125b-9dbf-4a60-823d-
8ebfdc03e8a3/predictions
```
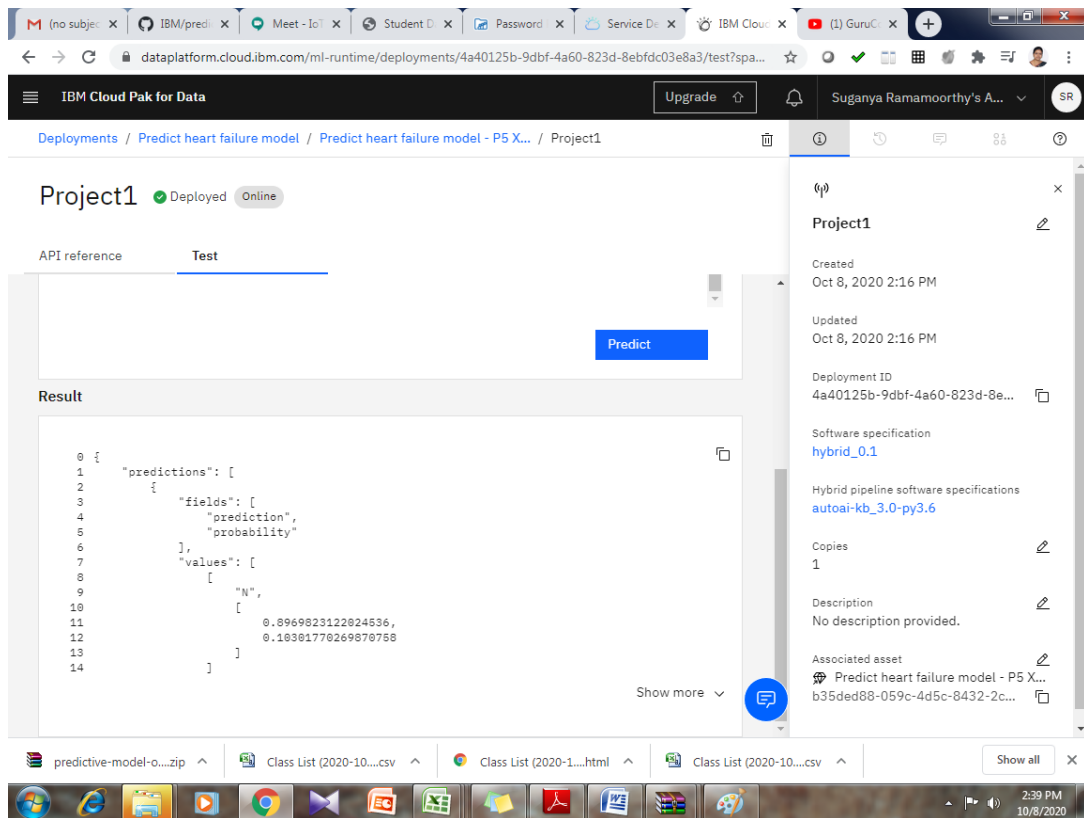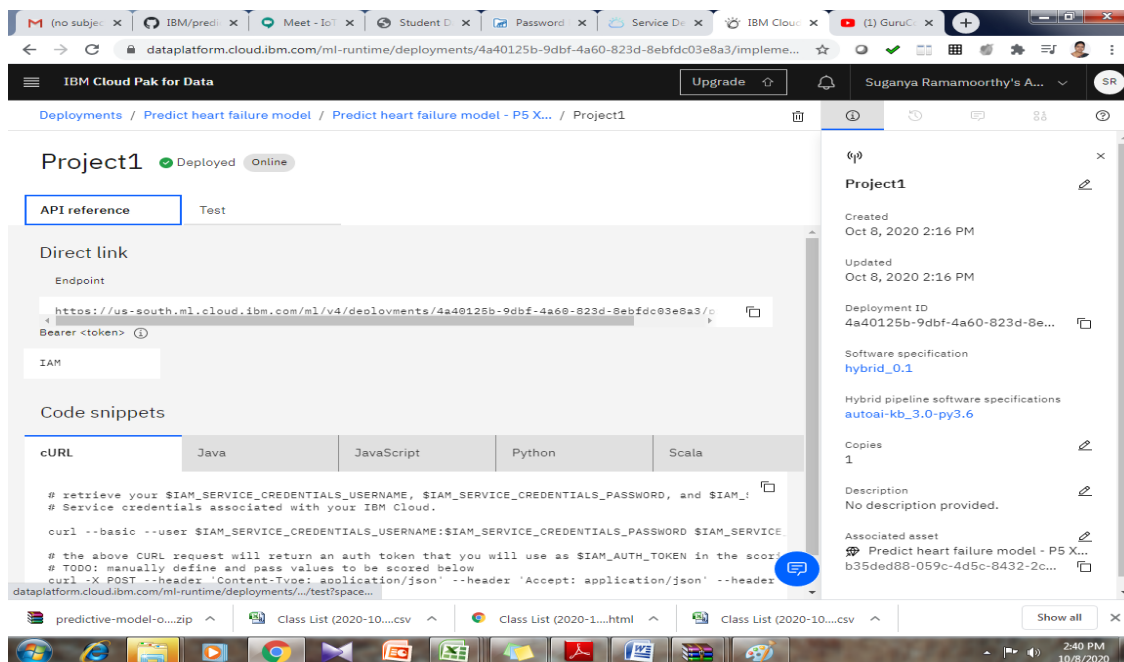
Figure 13: API reference

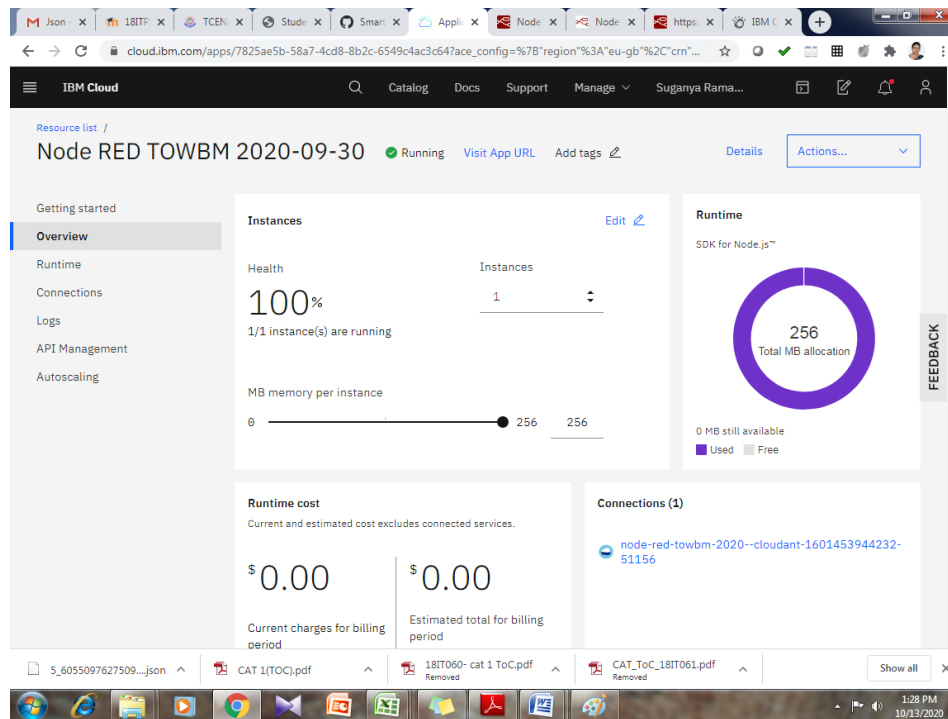Figure 14: Endpoint from API reference

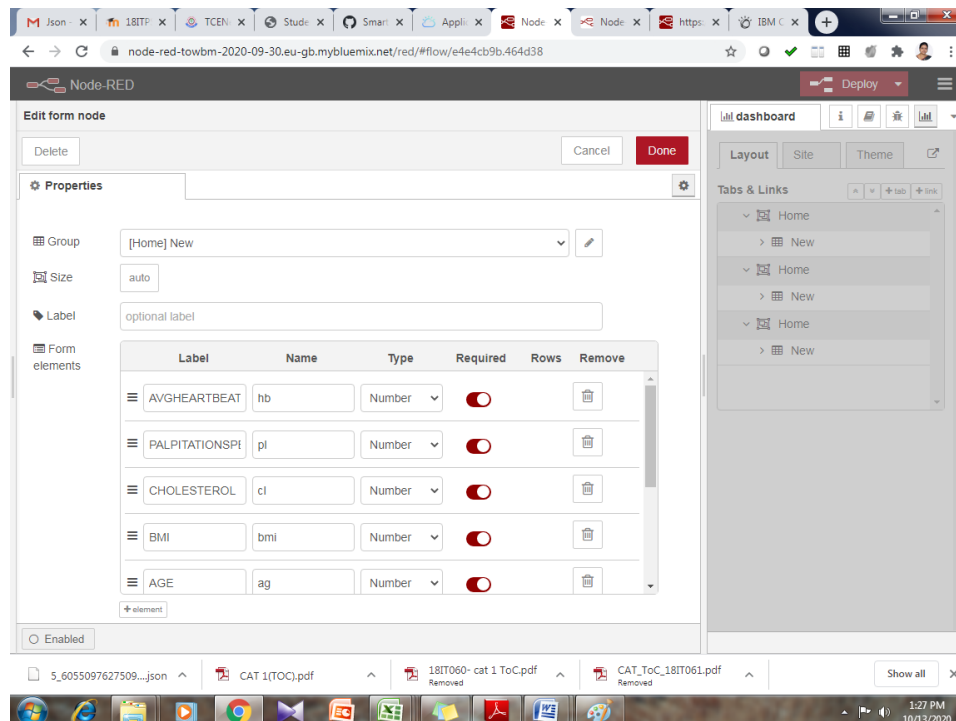Figure 15: Node RED running – click Visit App URL

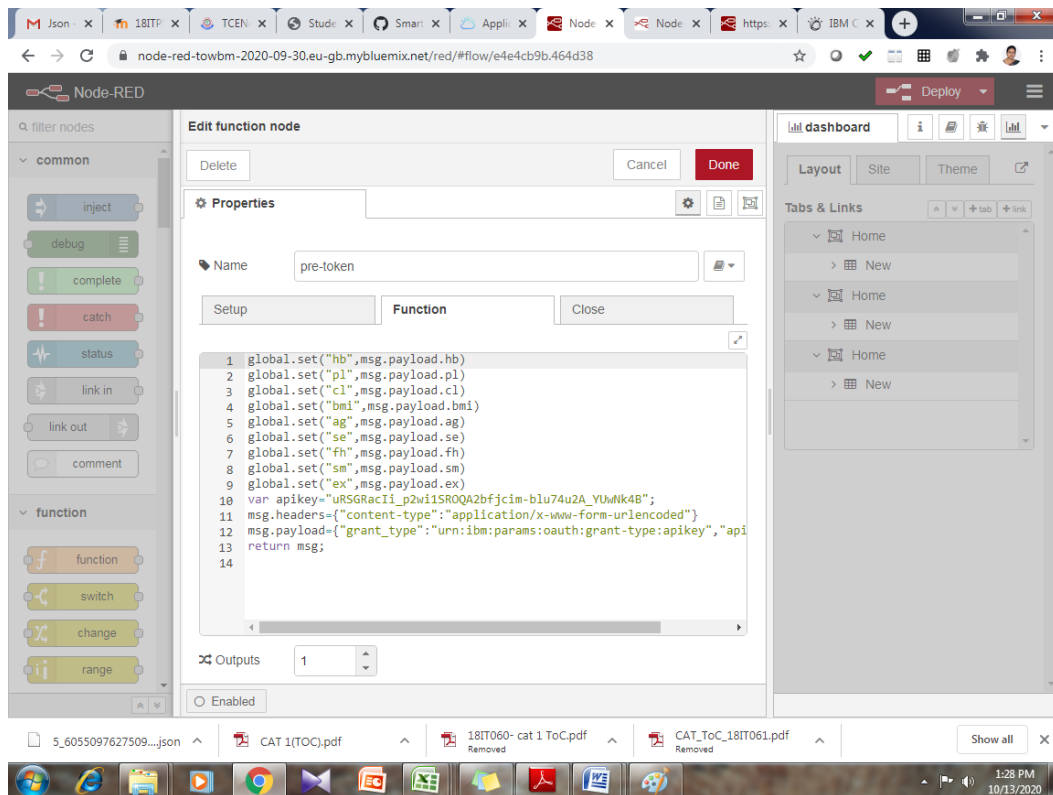Figure 16: Form properties- add all parameters in the heart failure dataset.

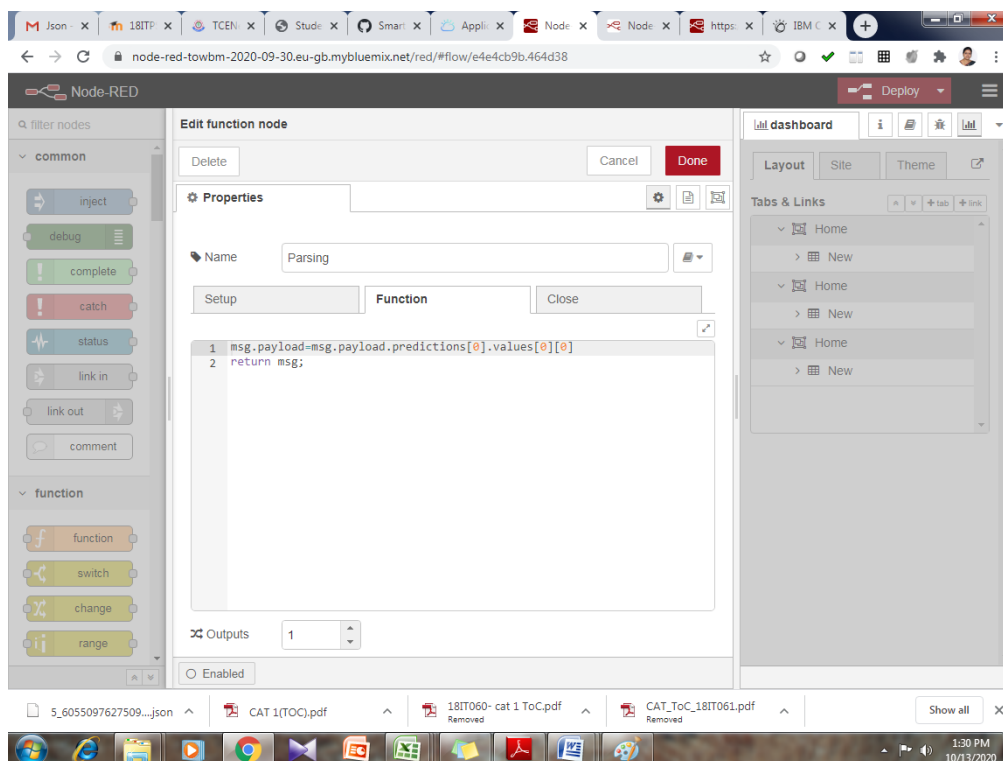Figure 17: Edit pre-token notation and change all the properties

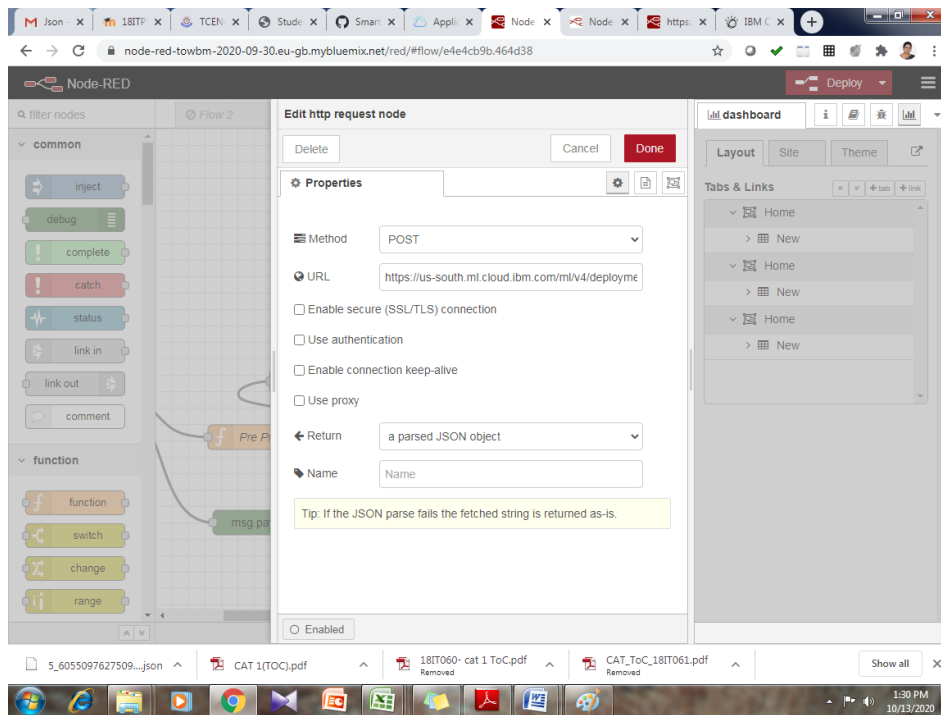Figure 18: Edit parsing node for prediction value

Figure 19: Add endpoint in 2nd httprequest

https://us-south.ml.cloud.ibm.com/ml/v4/deployments/b437aefd-41af-4a72-9590-17102431f8e1/predictions?version=2020-09-01

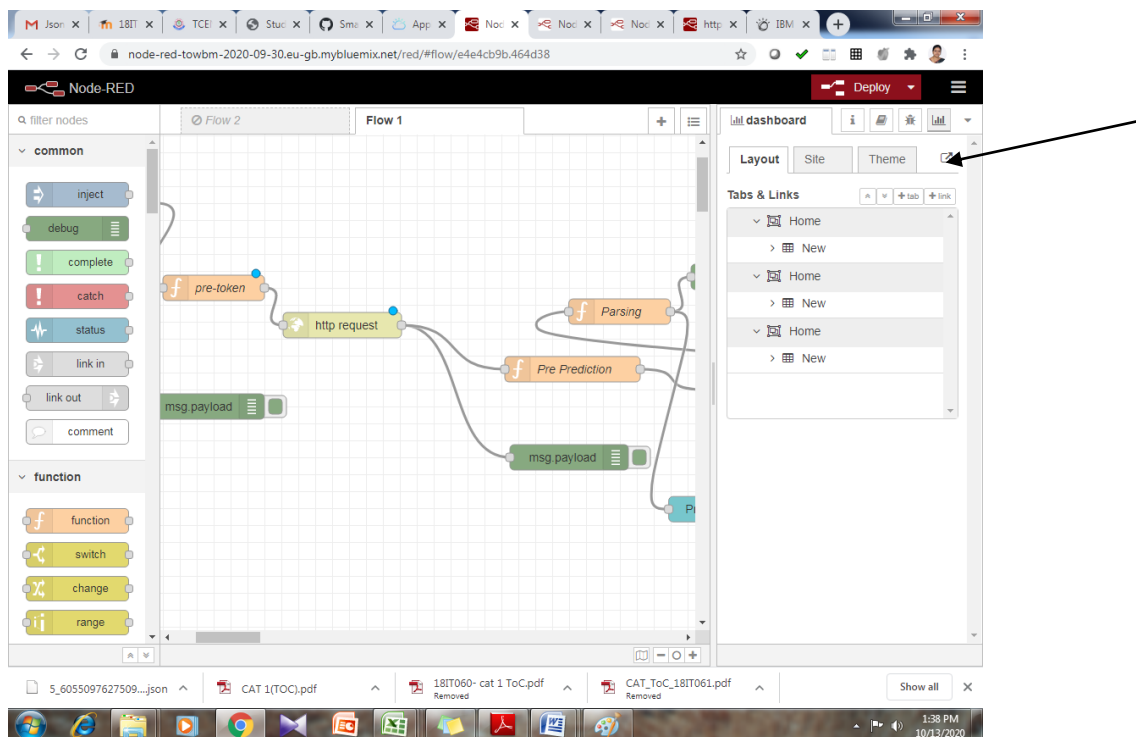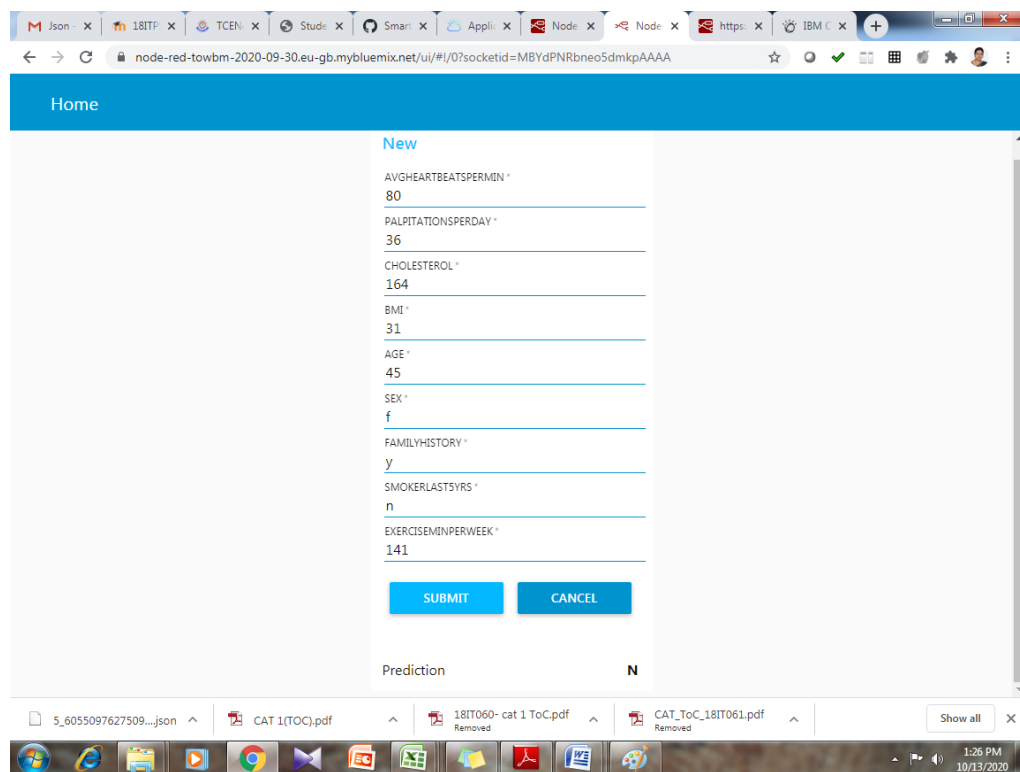Figure 20: click top left corner to run node RED

Figure 21: Output of the project – Prediction results
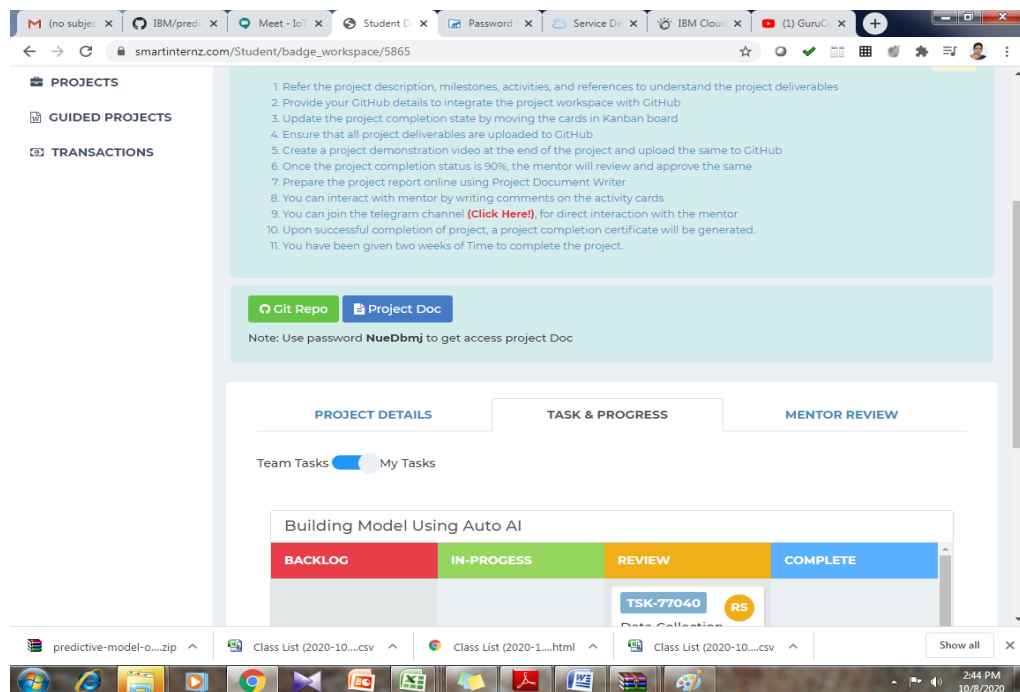

Figure 22: https://smartinternz.com/Student/badge_workspace/5865