IBM SmartCloud delivered by public, private or hybrid models
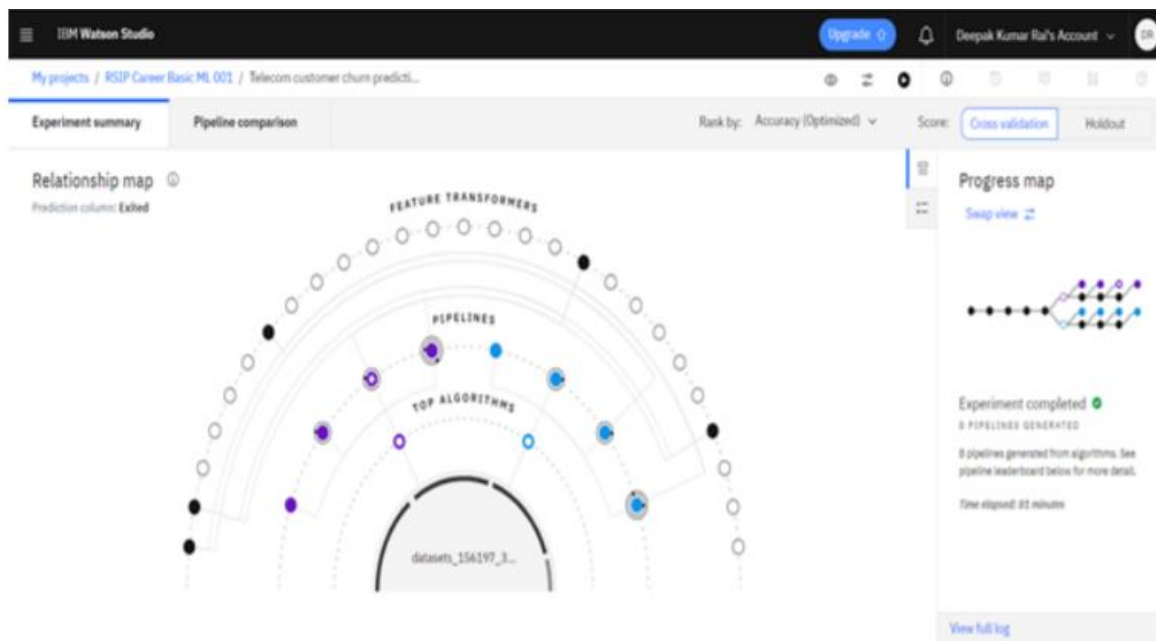
Cloud services and workloads

Software as a Service (SaaS)

Platform as a Service (PaaS)

Infrastructure as a Service (IaaS)

Cloud management

Provision, monitor, schedule, track and bill.

Virtualization

Hypervisors, virtual servers and virtual networking.

Physical hardware

Servers, storage and networking.

Strategy, security, design and implementation consulting
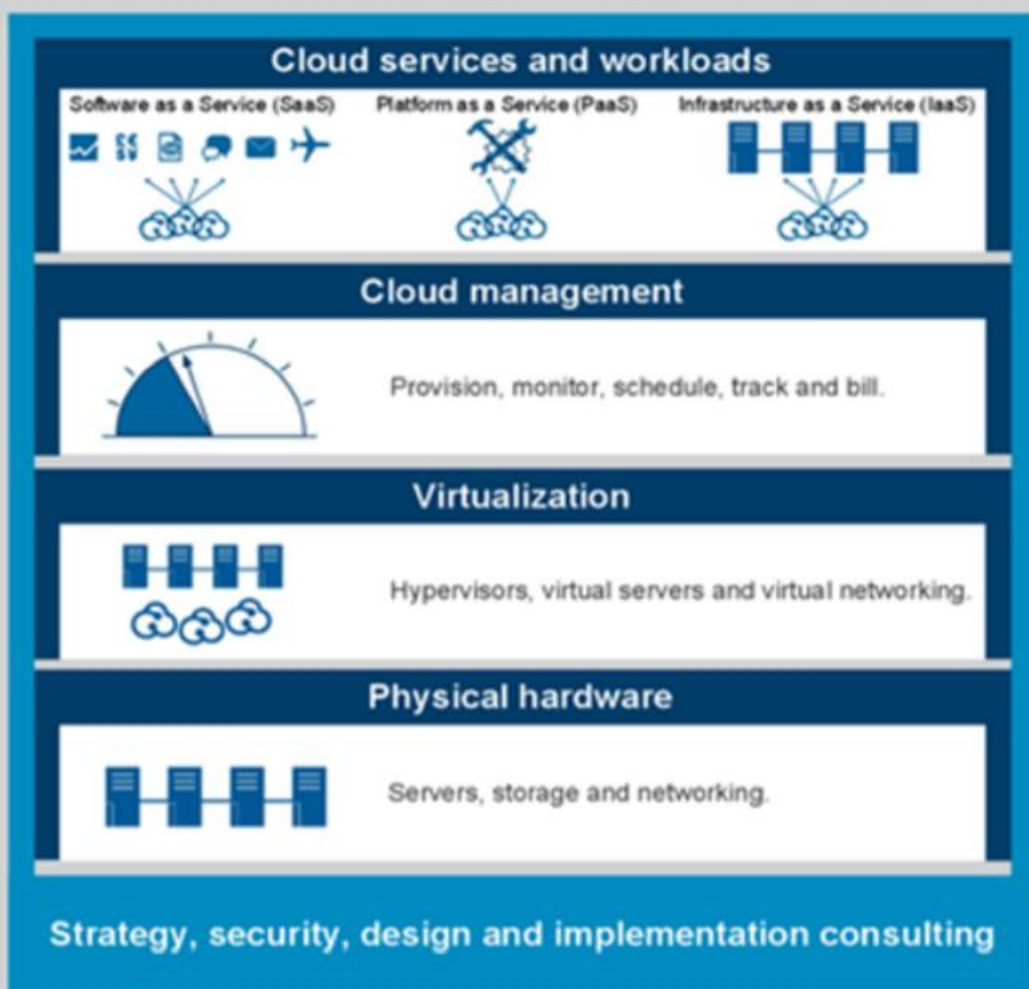
Fig:Result of Running Pipelines
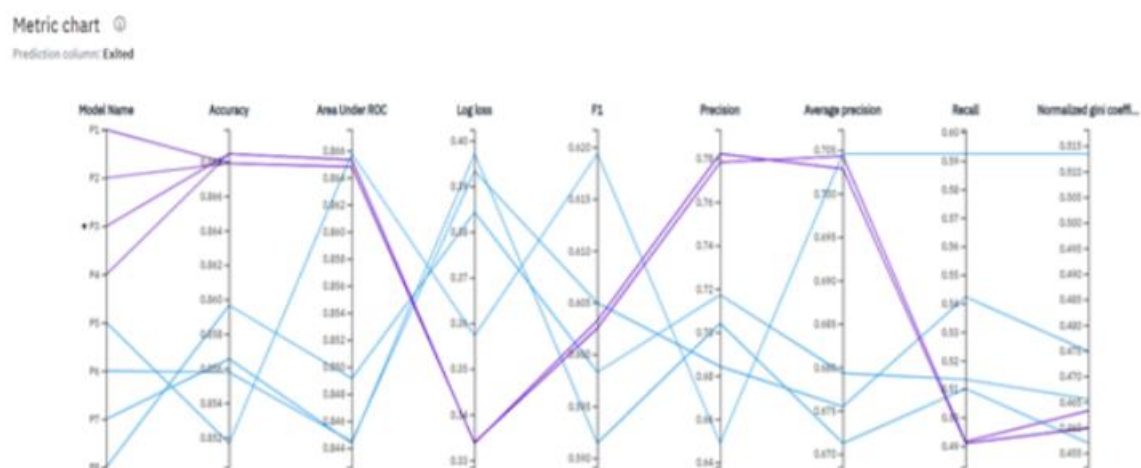
Fig:Pipeline Comparison

Pipeline leaderboard

	Rank ↑	Name	Algorithm	Accuracy (Optimized)	Enhancements	Build time
>	★ 1	Pipeline 3	Gradient Boosting Classifier	0.868	HPO-1 FE	00:04:13
>	2	Pipeline 4	Gradient Boosting Classifier	0.868	HPO-1 FE HPO-2	00:02:23
>	3	Pipeline 1	Gradient Boosting Classifier	0.868	None	00:00:07
>	4	Pipeline 2	Gradient Boosting Classifier	0.868	HPO-1	00:00:35
>	5	Pipeline 8	XGB Classifier	0.860	HPO-1 FE HPO-2	00:20:44
>	6	Pipeline 7	XGB Classifier	0.857	HPO-1 FE	00:44:58
>	7	Pipeline 6	XGB Classifier	0.856	HPO-1	00:05:40
>	8	Pipeline 5	XGB Classifier	0.852	None	00:00:03

Fig:Pipeline Leaderboard

Churn deployment

Overview | Implementation | **Test**

Enter input data

1

HasCrCard

1

IsActiveMember

1

EstimatedSalary

101348.88

Predict

```
{
  "predictions": [
    {
      "fields": [
        "prediction",
        "probability"
      ],
      "values": [
        [
          0,
          [
            0.6822726777373007,
            0.31772732226269923
          ]
        ]
      ]
    }
  ]
}
```

Fig:Test Run of Project

service we are able to turn our Machine Learning Algorithm into a beautiful Web App:

Home

Telecom Customer Churn Predictor

Fill these details:

CustomerID
15634602

Surname
Hargrave

Credit Score
619

Geography
France

Gender
Female

Age
42

Tenure
2

Balance
0

Num Of Products
1

Has Cr Card
1

Is Active Member
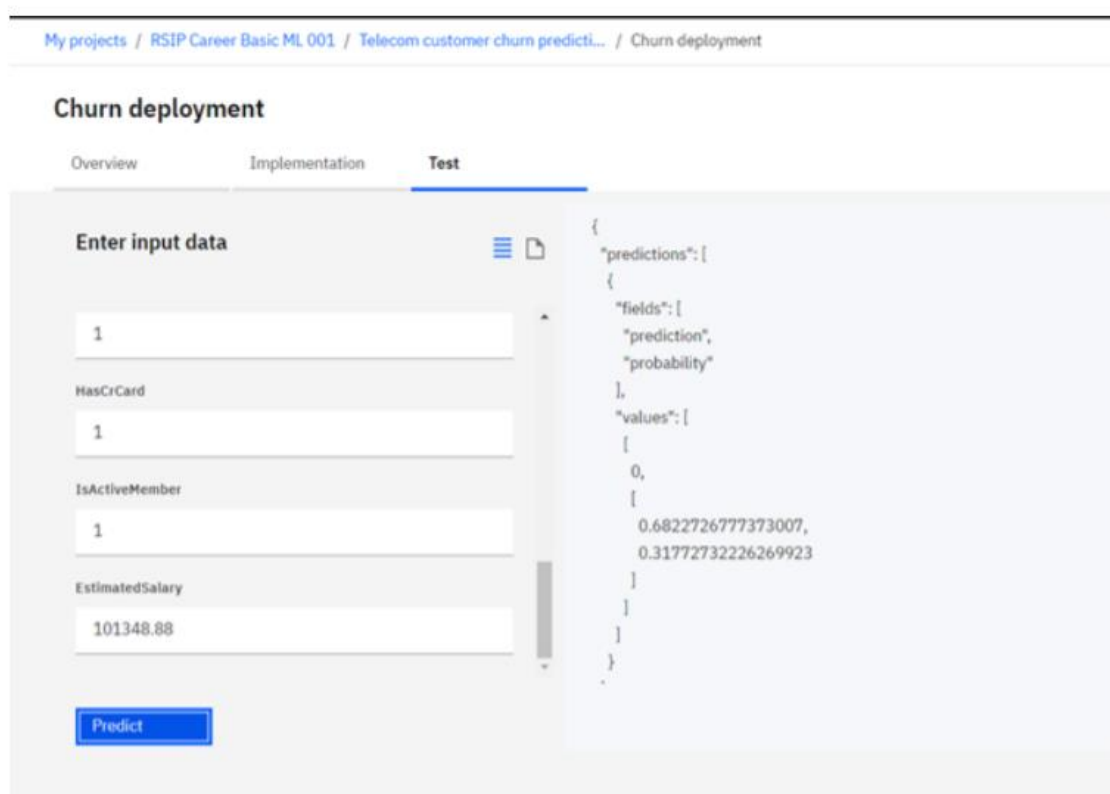1
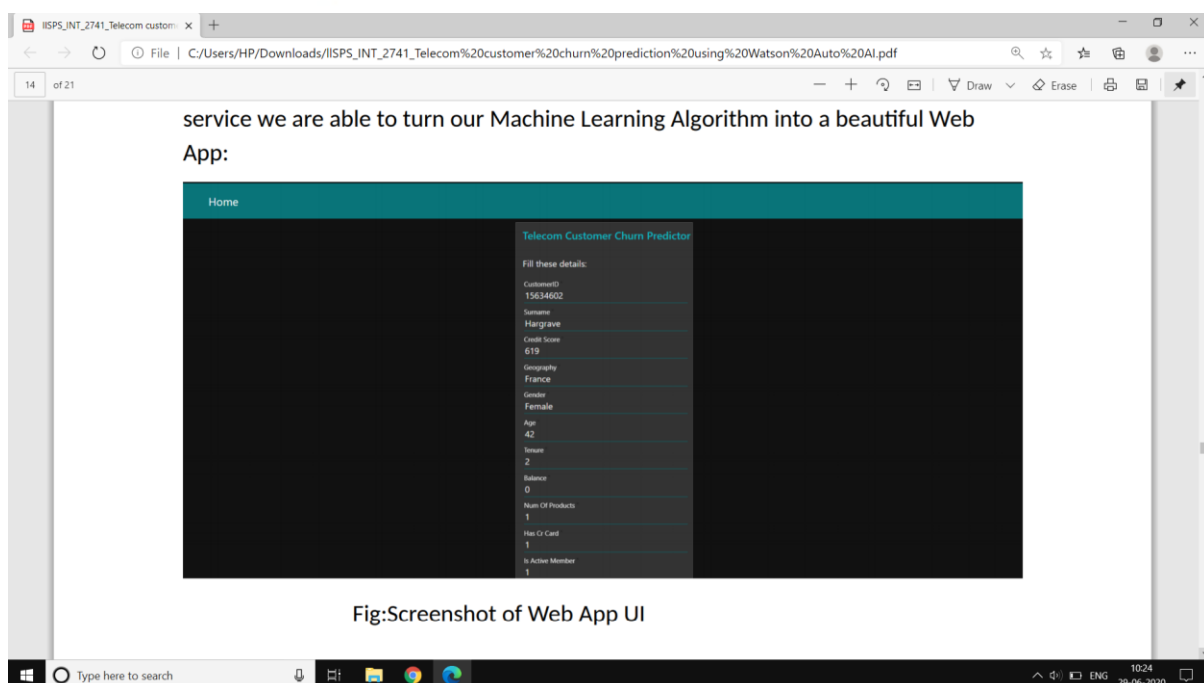
Fig:Screenshot of Web App UI

Customer Churn Prediction

Churn out (if 1=yes,if 0=no)   **0**

Row Number *

5

Customer Id *

15737888

Surname *

mitchell

Credit Score *

850

Geography *

spain

Gender *

female

Age *

43

Tenure *

2

Balance *

125510.8

No. of Products *

1

Has Credit Card *

1

Is Active Member *

1

Estimated Salary *

7908.1

SUBMIT   **CANCEL**

Hargrave

Credit Score
619

Geography
France

Gender
Female

Age
42

Tenure
2

Balance
0

Num Of Products
1

Has Cr Card
1

Is Active Member
1

Estimated Salary
101348.88

SUBMIT   CANCEL