Name: Chandini Saisri Uppuganti   ID: 018228483

Assignment 3: Auto ML with akkio or jadbio or any other good zero code automl - trial version

Get akkio.com freeaccount, demonstrate one (or more if you are interested) end2end ml project in jadbio (no code project)

I have created akkio free account and developed a Customer Churn prediction Machine Learning model by using it. I have uploaded the video on youtube as well.

Youtube link: **https://youtu.be/jWjwROzuELI**

Customer Churn prediction : This project helps us to find which customers will continue doing business which customers don't.

1. **Dataset**: I have used the kaggle dataset for this project and have many columns like customerID, gender, SeniorCitizen, Partner, churn....

   Kaggle dataset:
   https://www.kaggle.com/code/bhartiprasad17/customer-churn-prediction/notebook

2. The model has splitted the dataset into testing and training automatically and did feature training, selecting the best algorithm for the task. The model performance is calculated based on several metrics like accuracy, precision, recall...

Name: Chandini Saisri Uppuganti   ID: 018228483

app.akkio.com/project/623cb7a1-9d0f-4ecc-93e3-4f465df80456

Click to go back, hold to see history

Churn_Prediction_data...   Prepare   Explore   Predict   Deployments   Reports   Enable Support

Churn_Prediction_dataset.csv   Data Preprocessing ×   Clean   Merge   Generate dashboard   Download
7,032 rows, 21 columns

customerID	gender	SeniorCitizen	Partner	Dependents	tenure	PhoneService	MultipleLines
ID	Category	Category	Category	Category	Number (Integer)	Category	Category
7032 unique values	Male 50.5% / Female 49.5%	0 83.8% / 1 16.2%	No 51.7% / Yes 48.3%	No 70.2% / Yes 29.8%	1 ... 72	Yes 90.3% / No 9.7%	No 48.1% / Yes 42.2% / No phone servi... 9.7%
1	7590-VHVEG	Female	0	Yes	No	1	No	No phone service
2	5575-GNVDE	Male	0	No	No	34	Yes	No
3	3668-QPYBK	Male	0	No	No	2	Yes	No
4	7795-CFOCW	Male	0	No	No	45	No	No phone service
5	9237-HQITU	Female	0	No	No	2	Yes	No
6	9305-CDSKC	Female	0	No	No	8	Yes	Yes
7	1452-KIOVK	Male	0	No	Yes	22	Yes	Yes
8	6713-OKOMC	Female	0	No	No	10	No	No phone service
9	7892-POOKP	Female	0	Yes	No	28	Yes	Yes
10	6388-TABGU	Male	0	No	Yes	62	Yes	No
11	9763-GRSKD	Male	0	Yes	Yes	13	Yes	No
12	7469-LKBCI	Male	0	No	No	16	Yes	No
13	8091-TTVAX	Male	0	Yes	No	58	Yes	Yes
14	0280-XJGEX	Male	0	No	No	49	Yes	Yes
15	5129-JLPIS	Male	0	No	No	25	Yes	No
16	3655-SNQYZ	Female	0	Yes	Yes	69	Yes	Yes
17	8191-XWSZG	Female	0	No	No		Yes	No
18	9959-WOFKT	Male		No	Yes	71	Yes	Yes

What do you want to do with your dataset?

Play wit...   Chandin...   Video d...   chandin...   Project...   Churn_...   CUSTON...   api.akki...   Create...   Free Pla...   Untitled...   +

app.akkio.com/project/623cb7a1-9d0f-4ecc-93e3-4f465df80456

Churn_Prediction_data...   Prepare   Explore   Predict   Deployments   Reports   Enable Support

Churn_Prediction_dataset.csv   Data Preprocessing   Retrain Model
7,032 rows, 21 columns

‹ Back to Training Types

Predict

Predict Fields
Select which numerical or categorical fields to predict and optionally ignore.

Predict 1   Ignore

🔍 Search fields...

○ gender
○ SeniorCitizen
○ Partner
○ Dependents
○ tenure
○ PhoneService
○ MultipleLines
○ InternetService
○ OnlineSecurity
○ OnlineBackup

Training Mode
Choose how long you would like to train your model. Longer training generally improves model accuracy.

Fastest ▾

Prediction Column: Churn CATEGORY   Outcome of Interest: Yes Edit   Expand Insights ⧉

⟳ **Classification Summary**
Below is a breakdown of how well the model predicted your outcome of interest

Overall Accuracy
79.8%
1,123 out of 1,407 rows tested are classified correctly

› See accuracy details

EXCELLENT
Performance for Yes
2.5x better than baseline
Rows predicted to be Yes are 2.50x more likely to be Yes than the baseline rate.
● Model
● Baseline
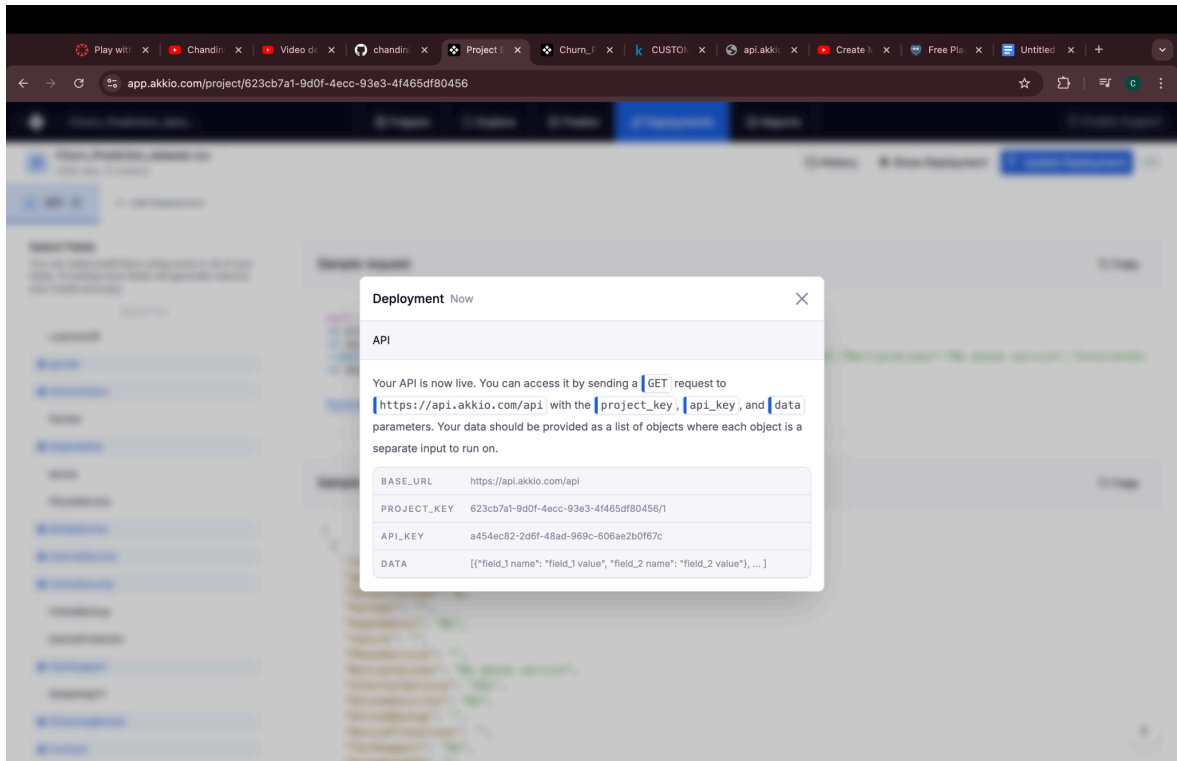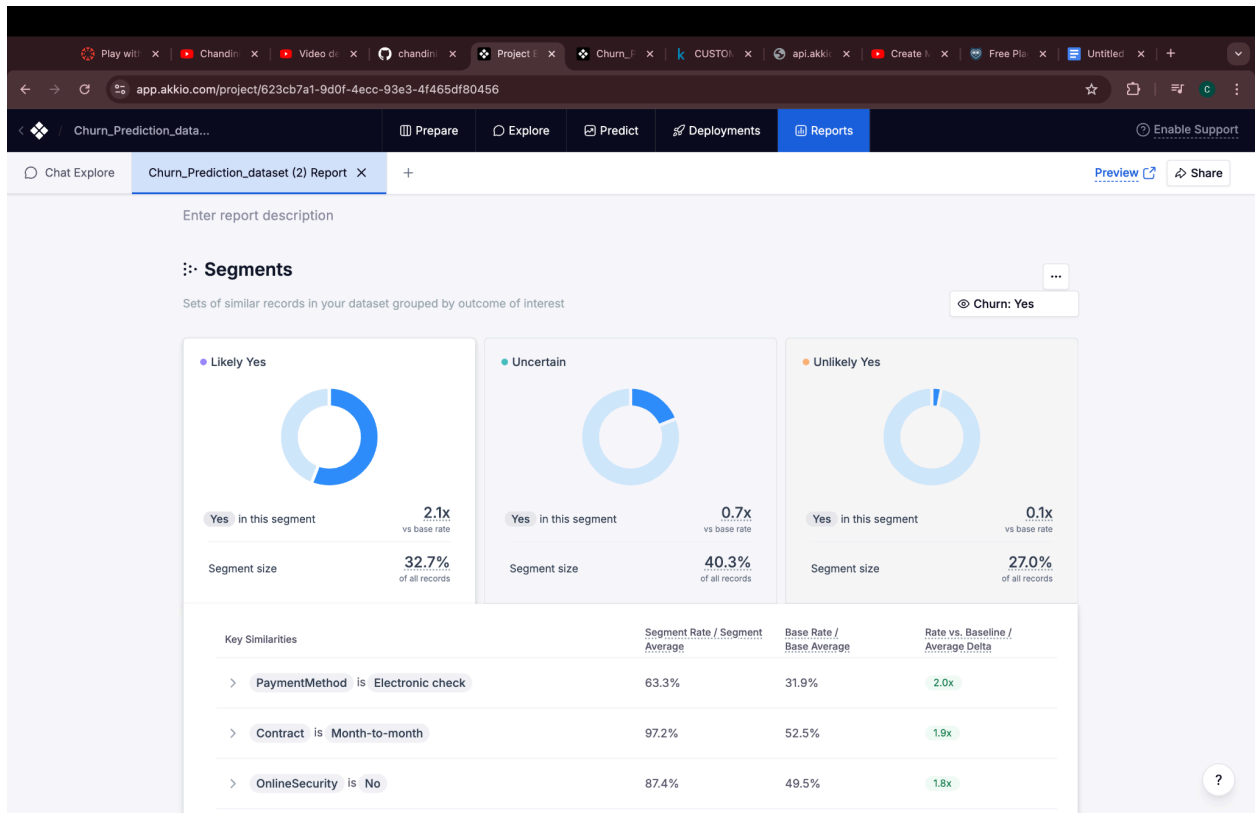
+ Add to Report

≡ **Top Fields**
Fields ranked by their contribution to the prediction results

Contract	17.9%
TotalCharges	16.0%
MonthlyCharges	10.3%

When **Contract** is   Impact on likelihood of **Yes**

Two year	- 16.21%
Month-to-month	+ 13.14%
One year	- 9.43%

3. The model can deploy our model using API.

4. It visualizes the data in the form of graphs, charts and all..

5. Akkio.com provides:

   1. User friendly interface

   2. Zero Code (Totally UI based)

   3. Data cleaning

   4. AutoML

   5. Model Evaluation

   6. Prediction

   7. Deployment

   8. Visualization