Sheet 1

Student Country
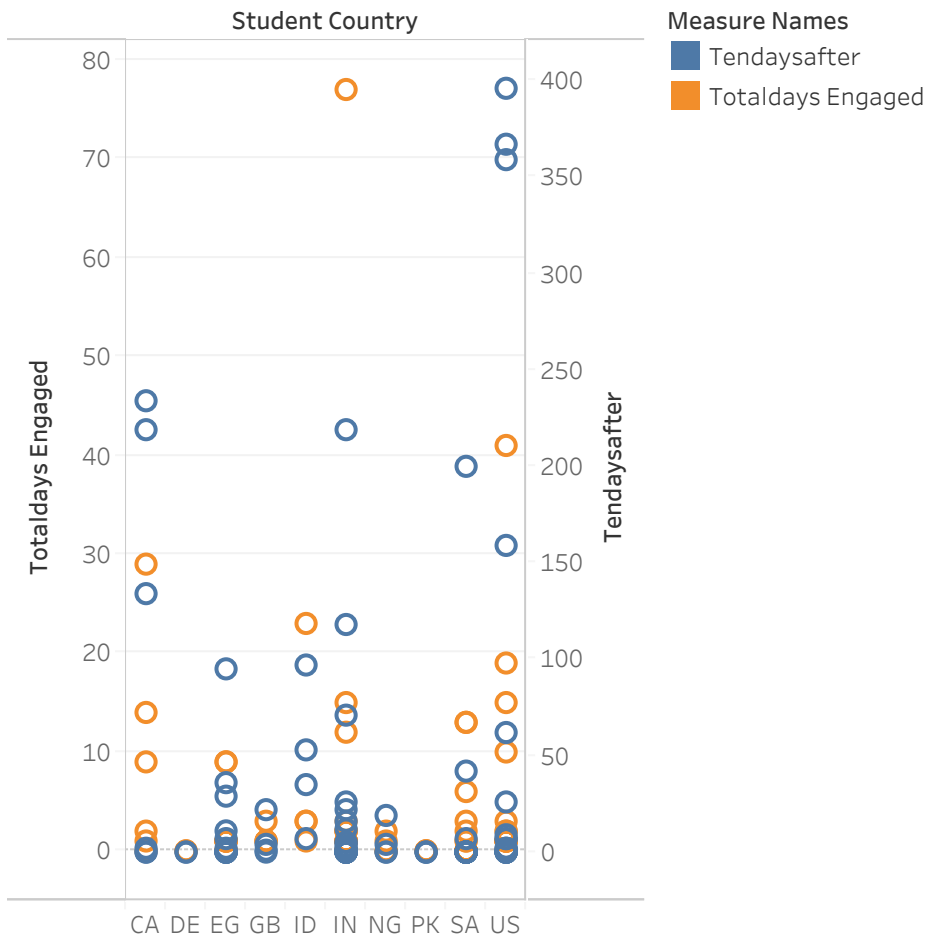

Totaldays Engaged and Tendaysafter for each Student Country. Color shows details about Totaldays Engaged and Tendaysafter.

Prediction based on Machine Learning Model & User Parameters

Chosen ML Model: XGBoost

Prediction for Conversion: Yes

Probability of Prediction: 85.57%

Model Accuracy is:
F1 Score = 80.97%, Balanced Accuracy = 92.26%,
Precision = 76%, Recall = 87%

Result, mlmodel, Model_Accuracy and resultpercent.

Model Prediction For Latest Data

Student Country / Totaldays Engaged

Prediction based on Machine Learning Model & User Parameters

Chosen ML Model: XGBoost

Prediction for Conversion: Yes
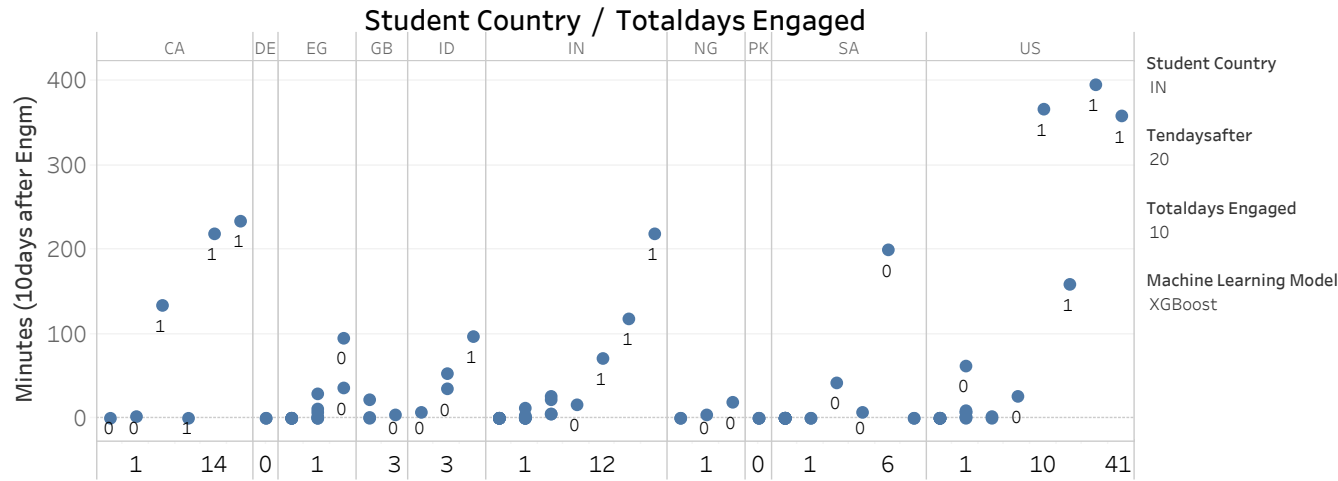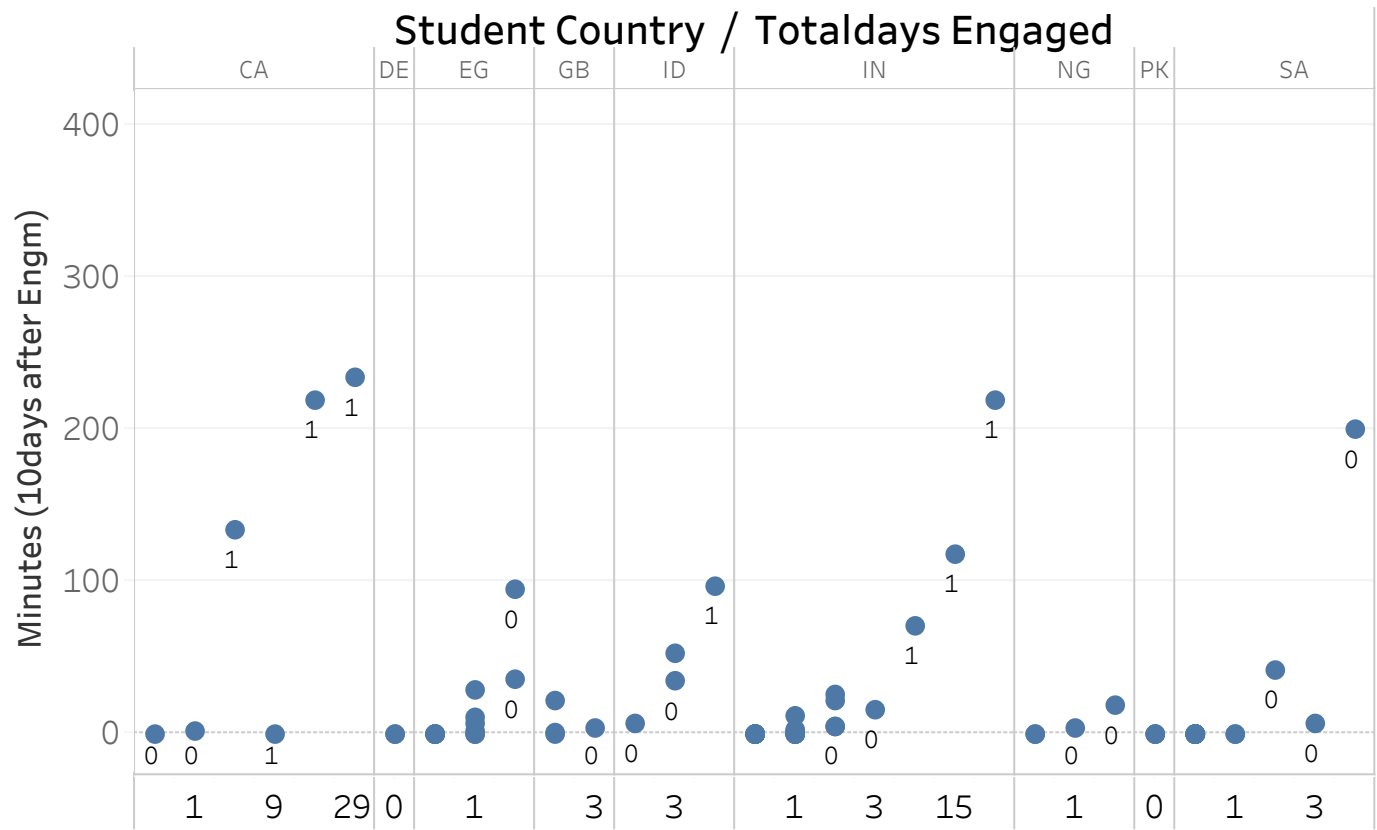
Probability of Prediction: 85.57%

Model Accuracy is:

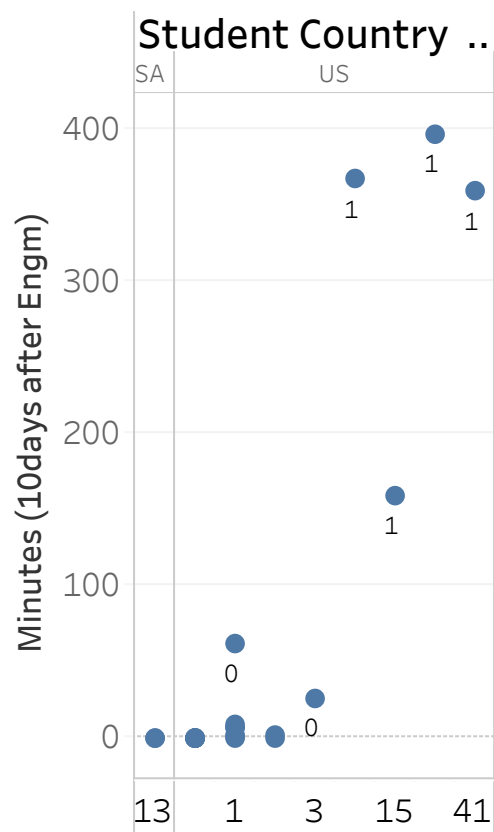F1 Score = 80.97%, Balanced Accuracy = 92.26%,

Precision = 76%, Recall = 87%

Model Prediction For Latest Data

Tendaysafter for each Totaldays Engaged broken down by Student Country. The marks are labeled by predict_ccparam.

Model Prediction For Latest Data

Student Country ..

SA   US

Minutes (10days after Engm)

400
300
200
100
0

0
0
1
1
1
1

13   1   3   15   41
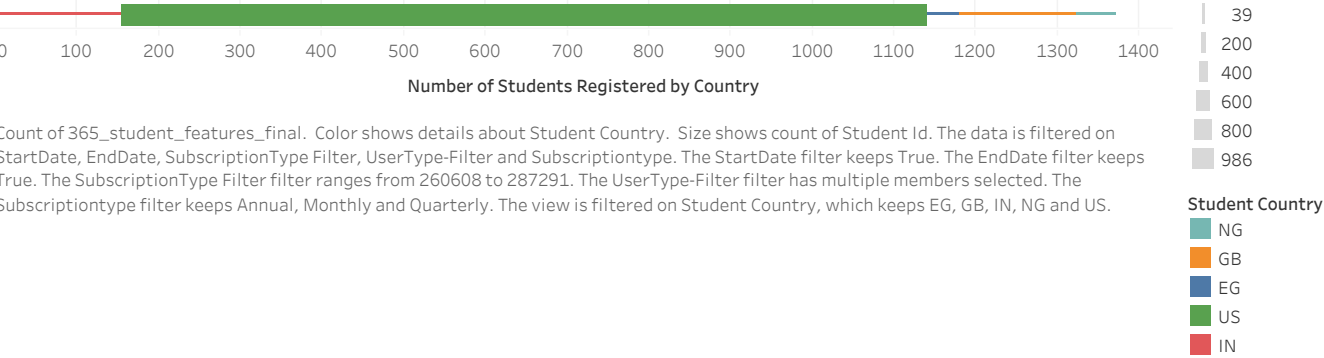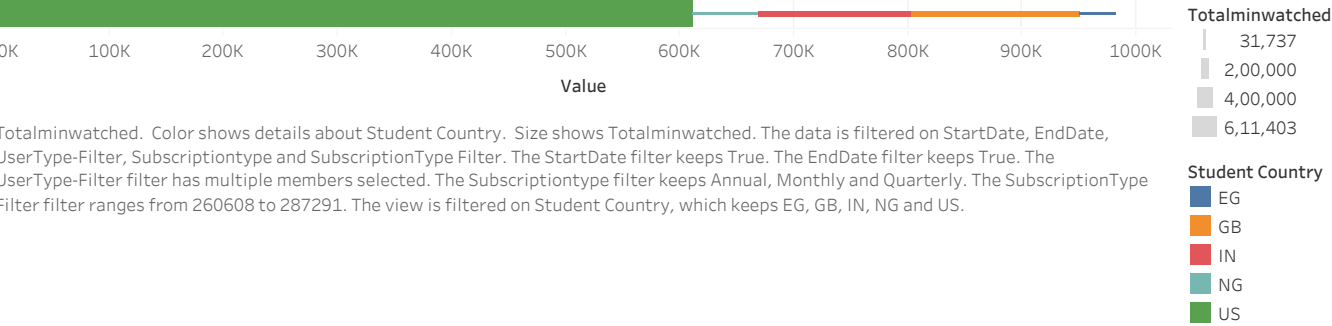
Tendaysafter for each Totaldays Engaged broken down by Student Country. The marks are labeled by predict_ccparam.
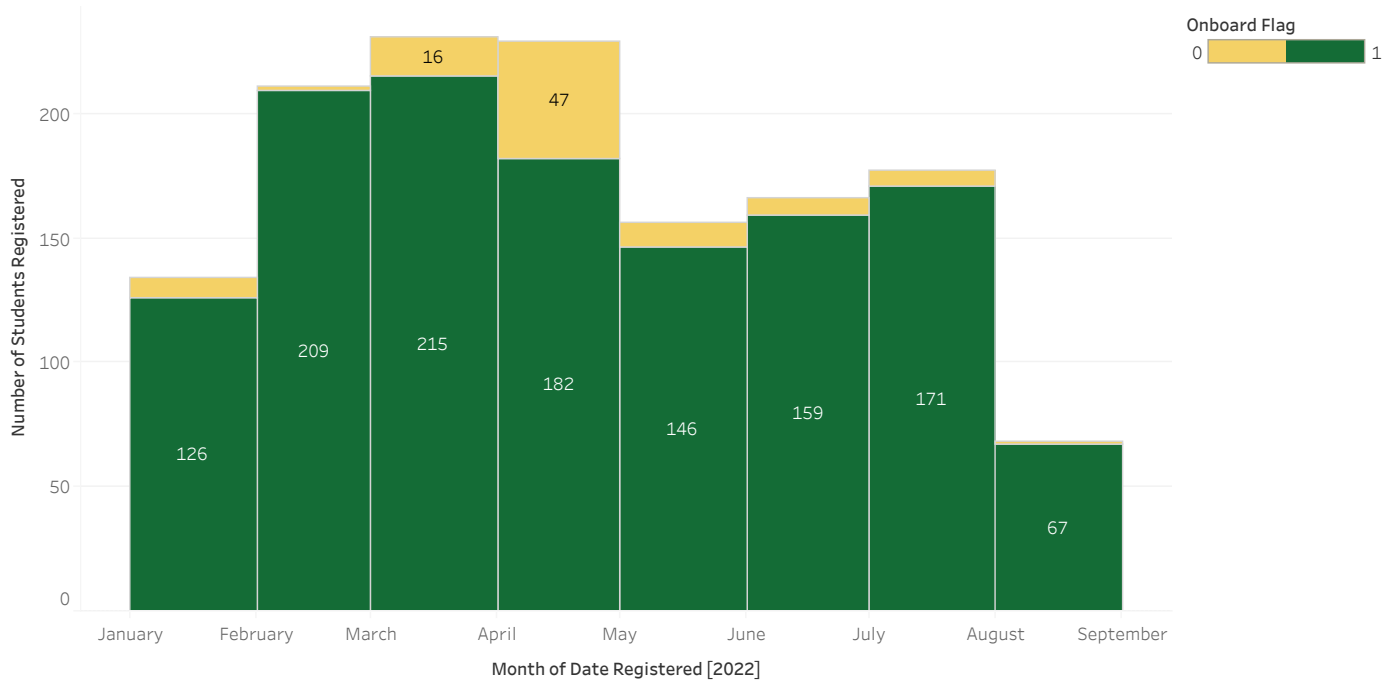
Number of Students (Top Five Countries)

Number of Students Registered by Country

Count of 365_student_features_final. Color shows details about Student Country. Size shows count of Student Id. The data is filtered on StartDate, EndDate, SubscriptionType Filter, UserType-Filter and Subscriptiontype. The StartDate filter keeps True. The EndDate filter keeps True. The SubscriptionType Filter filter ranges from 260608 to 287291. The UserType-Filter filter has multiple members selected. The Subscriptiontype filter keeps Annual, Monthly and Quarterly. The view is filtered on Student Country, which keeps EG, GB, IN, NG and US.

	39
	200
	400
	600
	800
	986

Student Country

- NG
- GB
- EG
- US
- IN

Total Minutes (Top Five Countries)

Value

Totalminwatched
31,737
2,00,000
4,00,000
6,11,403

Student Country
- EG
- GB
- IN
- NG
- US

Totalminwatched. Color shows details about Student Country. Size shows Totalminwatched. The data is filtered on StartDate, EndDate, UserType-Filter, Subscriptiontype and SubscriptionType Filter. The StartDate filter keeps True. The EndDate filter keeps True. The UserType-Filter filter has multiple members selected. The Subscriptiontype filter keeps Annual, Monthly and Quarterly. The SubscriptionType Filter filter ranges from 260608 to 287291. The view is filtered on Student Country, which keeps EG, GB, IN, NG and US.

Totalminwatched. Color shows details about Student Country. Size shows Totalminwatched. The data is filtered on StartDate, EndDate, UserType-Filter, Subscriptiontype and SubscriptionType Filter. The StartDate filter keeps True. The EndDate filter keeps True. The UserType-Filter filter has multiple members selected. The Subscriptiontype filter keeps Annual, Monthly and Quarterly. The SubscriptionType Filter filter ranges from 260608 to 287291. The view is filtered on Student Country, which keeps EG, GB, IN, NG and US.

Students Registered vs Onboarded

Number of Students Registered

Month	Onboard Flag 0	Onboard Flag 1
January		126
February		209
March	16	215
April	47	182
May		146
June		159
July		171
August		
September		67

Onboard Flag
0 ▮ 1

Month of Date Registered [2022]

The plot of count of Student Id for Date Registered Month. Color shows details about Onboard Flag. The data is filtered on StartDate, EndDate, UserType-Filter, Subscriptiontype and SubscriptionType Filter. The StartDate filter keeps True. The EndDate filter keeps True. The UserType-Filter filter has multiple members selected. The Subscriptiontype filter keeps Annual, Monthly and Quarterly. The SubscriptionType Filter filter ranges from 260608 to 287291.

Top Five Courses

Course Title	Minutes Watched	Average Minute..	Count of Course ..	Average Rating
Introduction to Data and ..	333,266	22	572	5
SQL	234,825	35	125	5
Statistics	193,280	27	215	5
Introduction to Excel	164,472	27	242	5
Python Programmer Boot..	155,164	34	101	5

Minutes Watched, Average Minutes Watched, count of Course Rating and Average Rating broken down by Course Title. The view is filtered on Course Title, which keeps Introduction to Data and Data Science, Introduction to Excel, Python Programmer Bootcamp, SQL and Statistics.

KPI - Registered Students

890

Count of Student Id (365!Student!Info). The data is filtered on StartDate, EndDate, SubscriptionType Filter, UserTypeFilter and Subscriptiontype. The StartDate filter keeps True. The EndDate filter keeps True. The SubscriptionType Filter filter ranges from 260608 to 287291. The UserType-Filter filter has multiple members selected. The Subscriptiontype filter keeps Annual, Monthly and Quarterly.
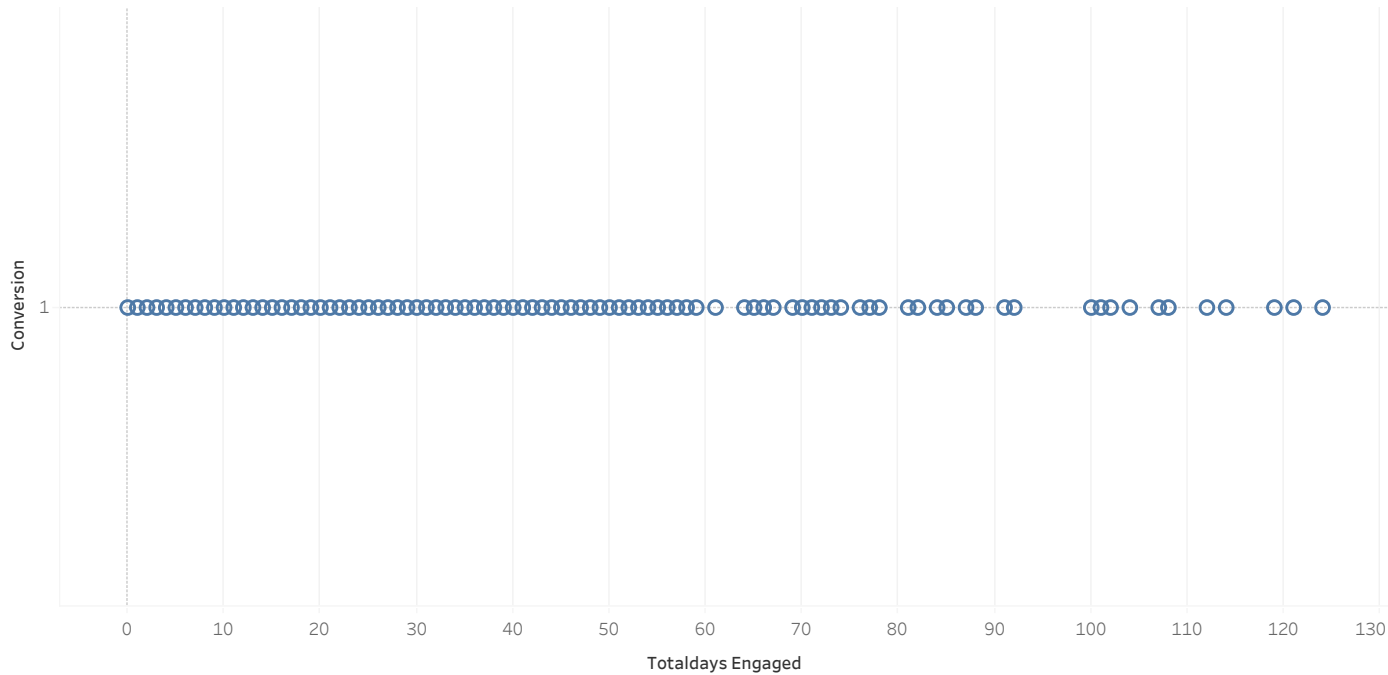
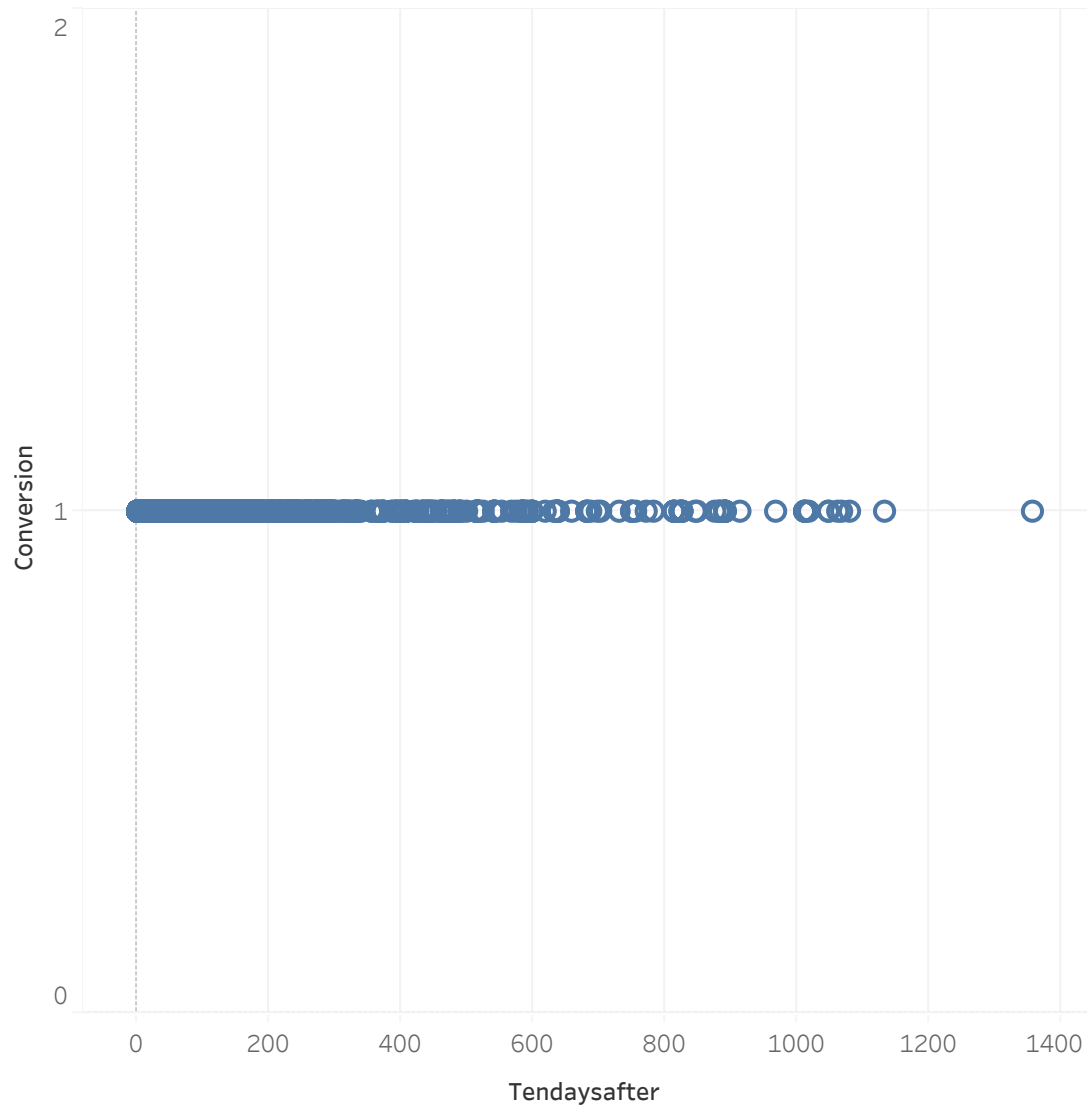# KPI - Total Min. Watched

9,82,563

Sum of Totalmin-watched. The data is filtered on StartDate, EndDate, Sub-scriptionType Filter, UserType-Filter and Sub-scriptiontype. The StartDate filter keeps True. The EndDate filter keeps True. The Subscription-Type Filter filter ranges from 260608 to 287291. The UserType-Filter filter has multiple members selected. The Subscriptiontype filter keeps Annual, Monthly and Quarterly.

KPI - Avg. Min. Watched

28.55

Average Minutes Watched.

KPI - % Onboarded

53.18

PercentOnboarded.

Days Engaged vs Conversion

Totaldays Engaged vs. Conversion. The data is filtered on StartDate, EndDate, SubscriptionType Filter, UserType-Filter and Subscriptiontype. The StartDate filter keeps True. The EndDate filter keeps True. The SubscriptionType Filter filter ranges from 260608 to 287291. The UserType-Filter filter has multiple members selected. The Subscriptiontype filter keeps Annual, Monthly and Quarterly.
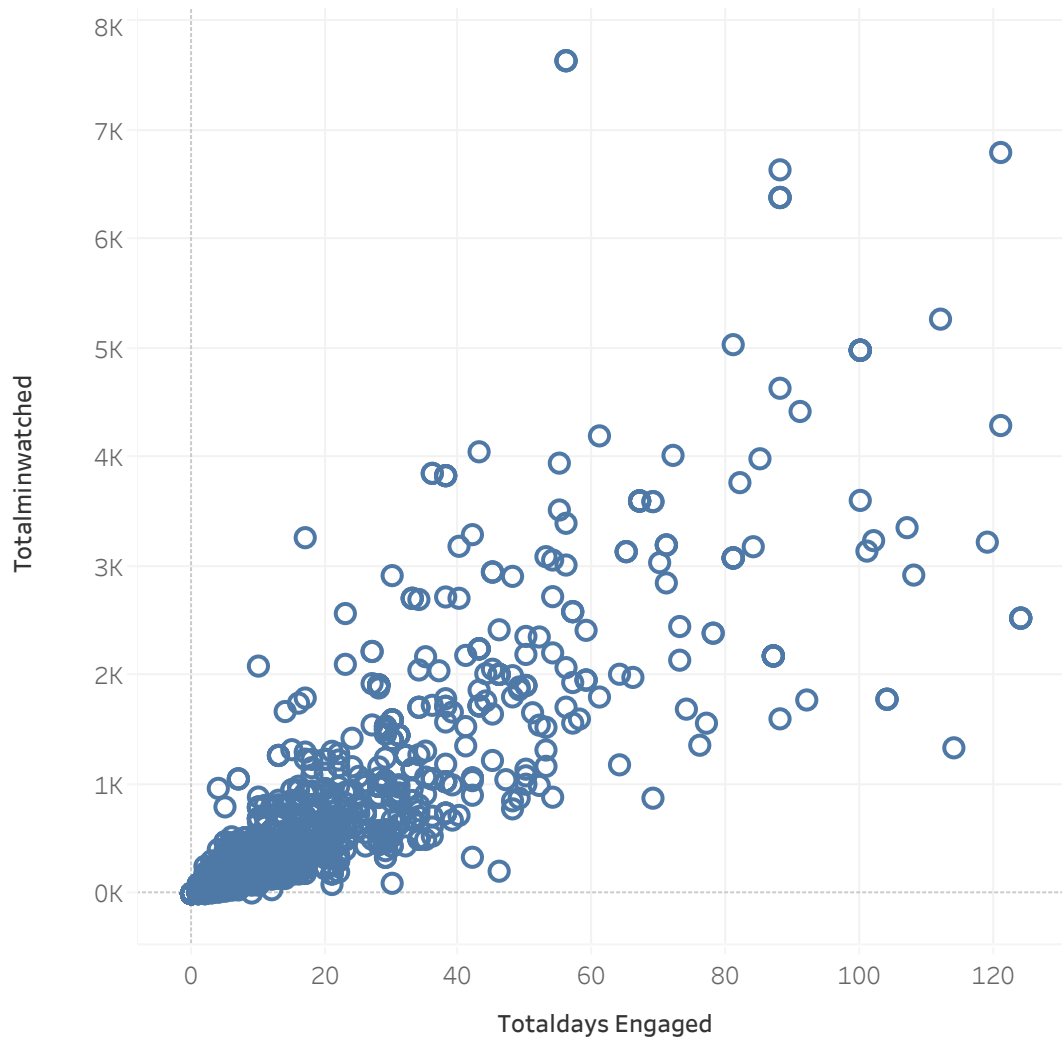
Max. Min before Conversion
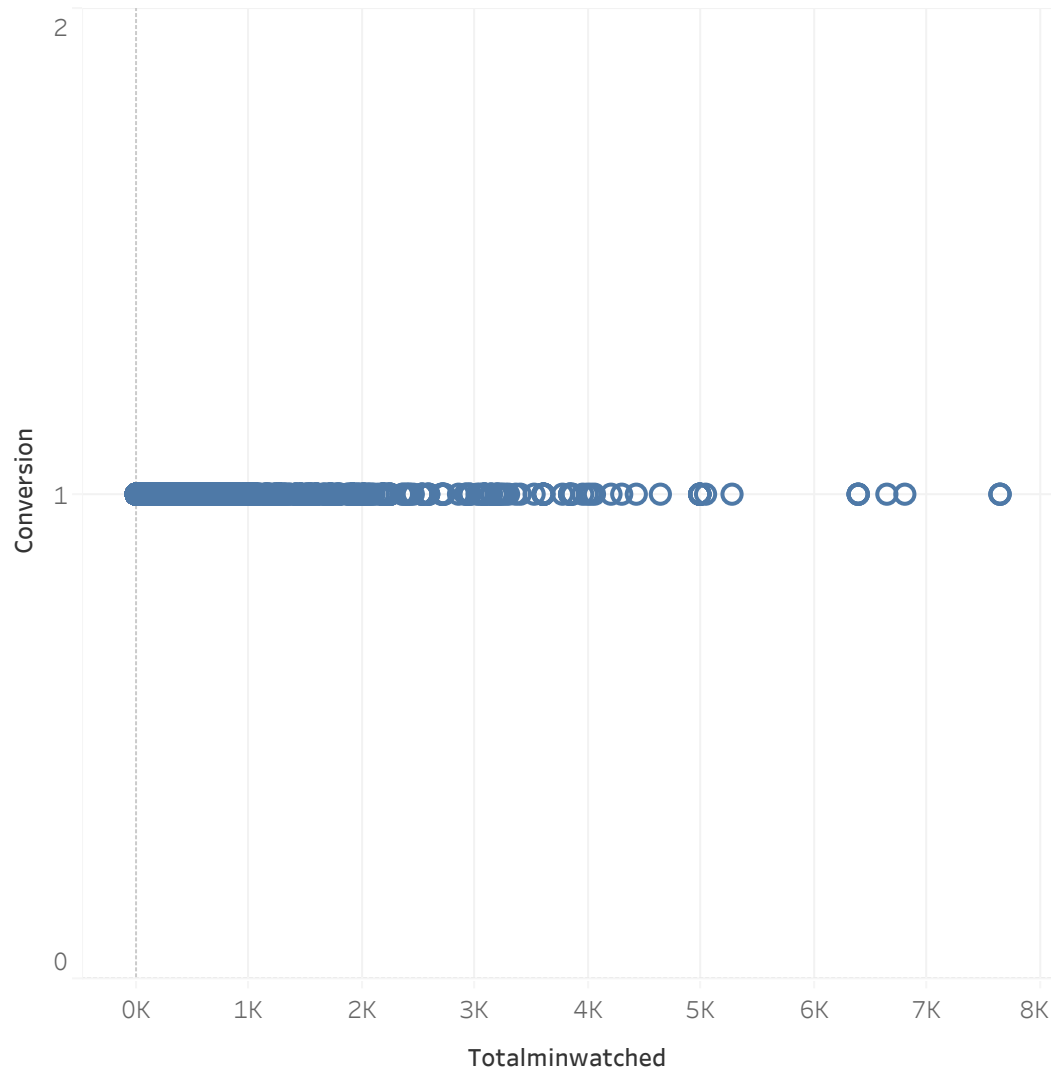
Totalminwatched vs. Conversion. The data is filtered on StartDate, EndDate, SubscriptionType Filter, UserType-Filter and Subscriptiontype. The StartDate filter keeps True. The EndDate filter keeps True. The SubscriptionType Filter filter ranges from 260608 to 287291. The UserType-Filter filter has multiple members selected. The Subscriptiontype filter keeps Annual, Monthly and Quarterly.

Max. min. 10 days after Eng

Tendaysafter vs. Conversion. The data is filtered on StartDate, EndDate, SubscriptionType Filter, UserType-Filter and Subscriptiontype. The StartDate filter keeps True. The EndDate filter keeps True. The SubscriptionType Filter filter ranges from 260608 to 287291. The UserType-Filter filter has multiple members selected. The Subscriptiontype filter keeps Annual, Monthly and Quarterly.

Days vs MInutes

Totaldays Engaged vs. Totalminwatched. The data is filtered on StartDate, EndDate, SubscriptionType Filter, UserType-Filter and Subscriptiontype. The StartDate filter keeps True. The EndDate filter keeps True. The SubscriptionType Filter filter ranges from 260608 to 287291. The UserType-Filter filter has multiple members selected. The Subscriptiontype filter keeps Annual, Monthly and Quarterly.

365 Data Science Platform Engagement Dashboard

Prediction based on Machine Learning Model & User Parameters

Chosen ML Model: XGBoost
Prediction for Conversion: Yes
Probability of Prediction: 85.57%
Model Accuracy is:
F1 Score = 80.97%, Balanced Accuracy = 92.26%,
Precision = 76%, Recall = 87%

Machine Learning Model
XGBoost

Student Country
IN

Totaldays Engaged
10

Tendaysafter
20

Filters

Student Country
- NG
- GB
- EG
- US
- IN

Start Date
01-01-2022

EndDate
20-10-2022

User Type
All

Subscription Type
None

Onboard Flag
0 — 1
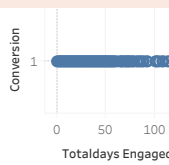
Measure Names
- AverageMinWatched
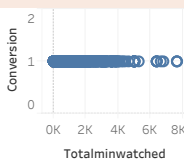- Totalminwatched

Model Prediction For Latest Data
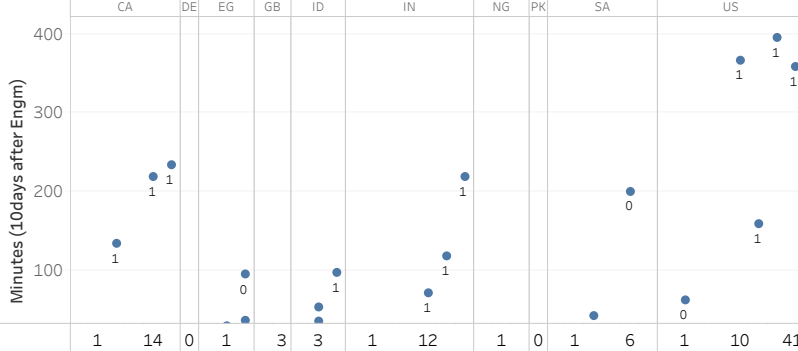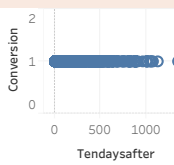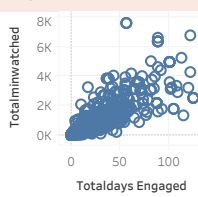
Student Country / Totaldays Engaged

Minutes (10days after Engm)

	CA	DE	EG	GB	ID	IN	NG	PK	SA	US
Count	1	14	0	1	3	12	1	0	1	6	1	10	41

Days Engaged vs Conversion

Conversion vs Totaldays Engaged

Max. Min before Conversion

Conversion vs Totalminwatched

Max. min. 10 days after Eng

Conversion vs Tendaysafter

Days vs MInutes

Totalminwatched vs Totaldays Engaged

Top Five Courses

Course Title	Minutes Watched	Average Minutes Watched	Count of Course Rating	Average Rating
Introduction to Data and ..	333,266	22	572	5
SQL	234,825	35	125	5
Statistics	193,280	27	215	5
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Python Programmer Boot..	155,164	34	101	5

Number of Students (Top Five Countries)
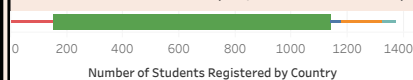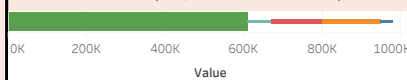
Number of Students Registered by Country

Total Minutes (Top Five Countries)

Value

KPIs

KPI - Registered Students	KPI - Total Min. Watched	KPI - Avg. Min. Watched	KPI - % Onboarded
890	9,82,563	28.55	53.18

Students Registered vs Onboarded

Number of Students Registered vs Month of Date Registered [2022]

January		March		May		July		September
126	209	215	182 (47)	146	159	171	67	

Total and Average Minutes Watched

Date Registered — Total Minutes Watched / Average Min Watched (January–August)
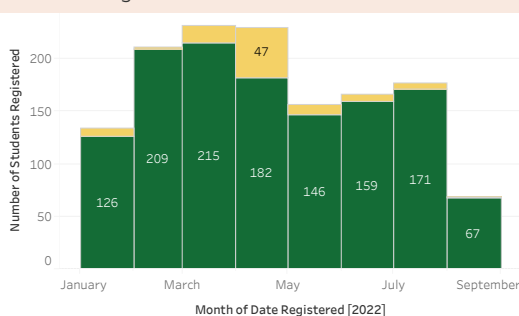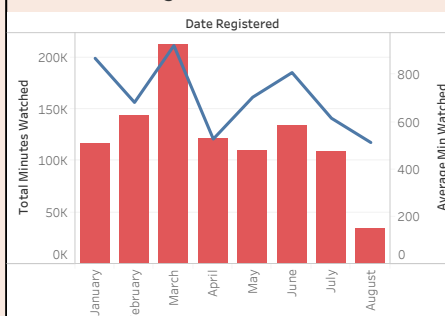
Total and Average Minutes Watched
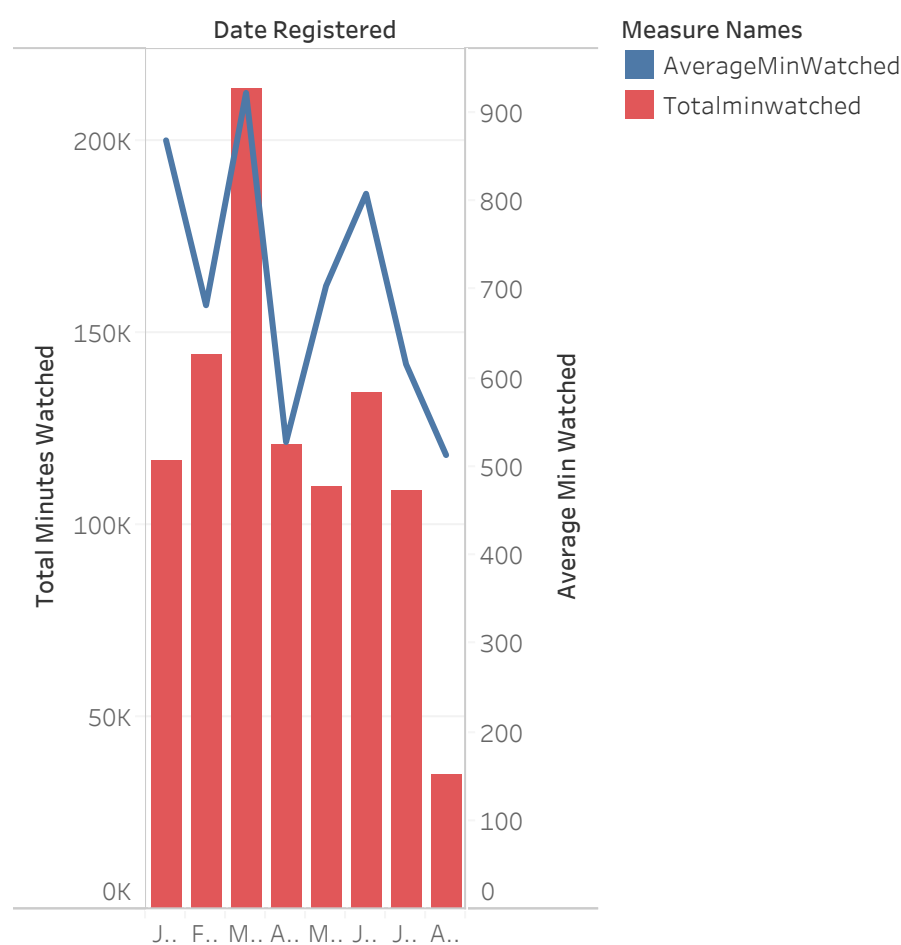
The trends of Totalminwatched and AverageMinWatched for Date Registered Month. Color shows details about Totalminwatched and AverageMinWatched. The data is filtered on StartDate, EndDate, SubscriptionType Filter, UserType-Filter and Subscriptiontype. The StartDate filter keeps True. The EndDate filter keeps True. The SubscriptionType Filter filter ranges from 260608 to 287291. The UserType-Filter filter has multiple members selected. The Subscriptiontype filter keeps Annual, Monthly and Quarterly.