Excel LMS_Insights

Average of Avg_Time_Spent — **Total** (line chart by AccessMonth)

Data points: 2024-04: 62.48, 2024-05: 61.89, 2024-06: 58.16, 2024-07: 60.15, 2024-08: 64.18, 2024-09: 64.64, 2024-10: 63.91, 2024-11: 59.81, 2024-12: 61.97, 2025-01: 62.20, 2025-02: 63.36, 2025-03: 60.40, 2025-04: 62.60

Sum of Total_Users — **Total** (column chart by Techno)

Sum of Completed, Sum of In_Progress, Sum of Not_Started (column chart by Country)

Average of Avg_Time_Spent — **Total** (pie chart by Device): Desktop 62.37, Mobile 62.29, Tablet 61.17

Row Labels	Average of Avg_Time_Spent
Desktop	62.37
Mobile	62.29
Tablet	61.17
Grand Total	**61.94**

Row Labels	Sum of Completed	Sum of In_Progress	Sum of Not_Started
Canada	985	593	390
Germany	996	626	389
India	983	605	372
UK	991	600	370
USA	1062	623	415
Grand Total	**5017**	**3047**	**1936**

Row Labels	Average of Avg_Time_Spent
2024-04	62.48
2024-05	61.89
2024-06	58.16
2024-07	60.15
2024-08	64.18
2024-09	64.64
2024-10	63.91
2024-11	59.81
2024-12	61.97
2025-01	62.20
2025-02	63.36
2025-03	60.40
2025-04	62.60
Grand Total	**61.94**

Row Labels	Sum of Total_Users
Angular	170
AWS	413
Azure	413
C#	500
C++	500
Devops	498
Django	170
Elasticsea	415
Flask	170
GCP	498
Java	415
JavaScript	415
Kotlin	500
Laravel	85
MongoDB	415
MySQL	415
Node.js	170
PostgreSQ	415
Power BI	85
Python	415
PyTorch	85
React	498
Redis	415
'Ruby	500
Spring	85
SQL	500
Swift	500
Tableau	85
TensorFlov	85
Vue.js	170
Grand Tot	**10000**

Device
- Desktop
- Mobile
- Tablet

Techno
- Angular
- AWS
- Azure
- C#
- C++
- Devops
- Django
- Elasticsearch

AccessMonth
- 2024-04
- 2024-05
- 2024-06
- 2024-07
- 2024-08
- 2024-09
- 2024-10
- 2024-11

Country
- Canada
- Germany
- India
- UK
- USA

POWER BI LMS PREDICTIONS

Access Trends

Month-Year
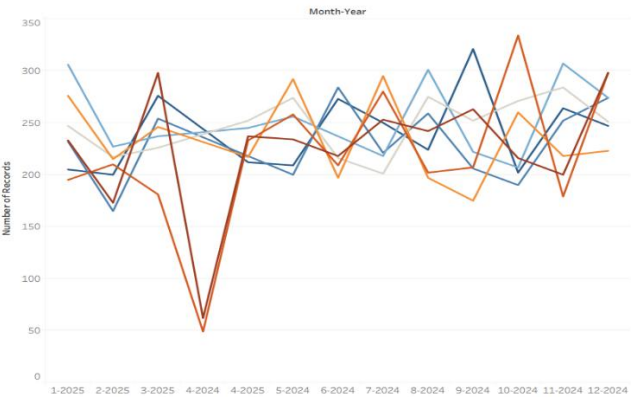
Access Day Of We..
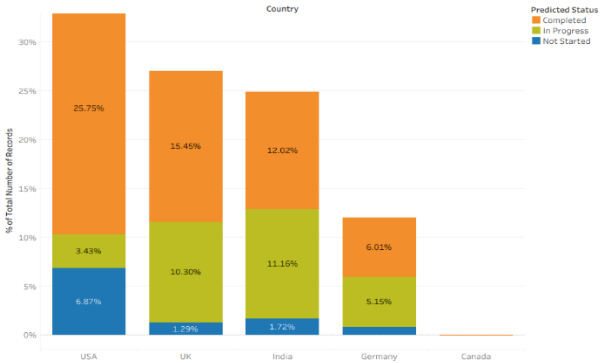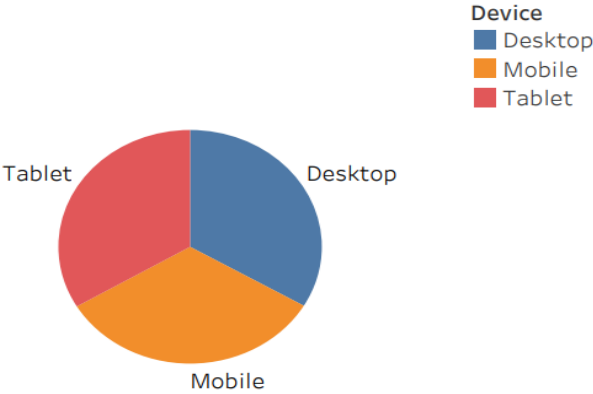0 ▭ 6

The trend of sum of Number of Records for Month-Year. Color shows details about Access Day Of Week. The data is filtered on Action (Predicted Status), Action (Country,Predicted Status) and Action (Techno). The Action (Predicted Status) filter keeps 3 members. The Action (Country,Predicted Status) filter keeps 15 members. The Action (Techno) filter keeps 30 members.

Country-wise Status

Country

Predicted Status
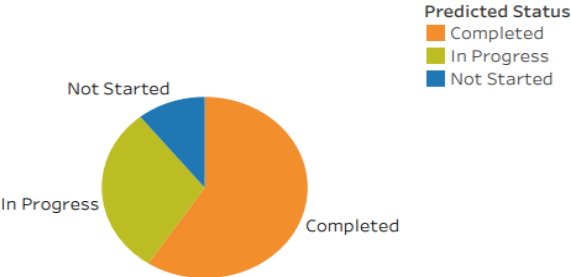■ Completed
■ In Progress
■ Not Started

% of Total Number of Records for each Country. Color shows details about Predicted Status. The data is filtered on Action (Predicted Status) and Action (Access Day Of Week,Month-Year). The Action (Predicted Status) filter keeps 3 members. The Action (Access Day Of Week,Month-Year) filter keeps 1 member.

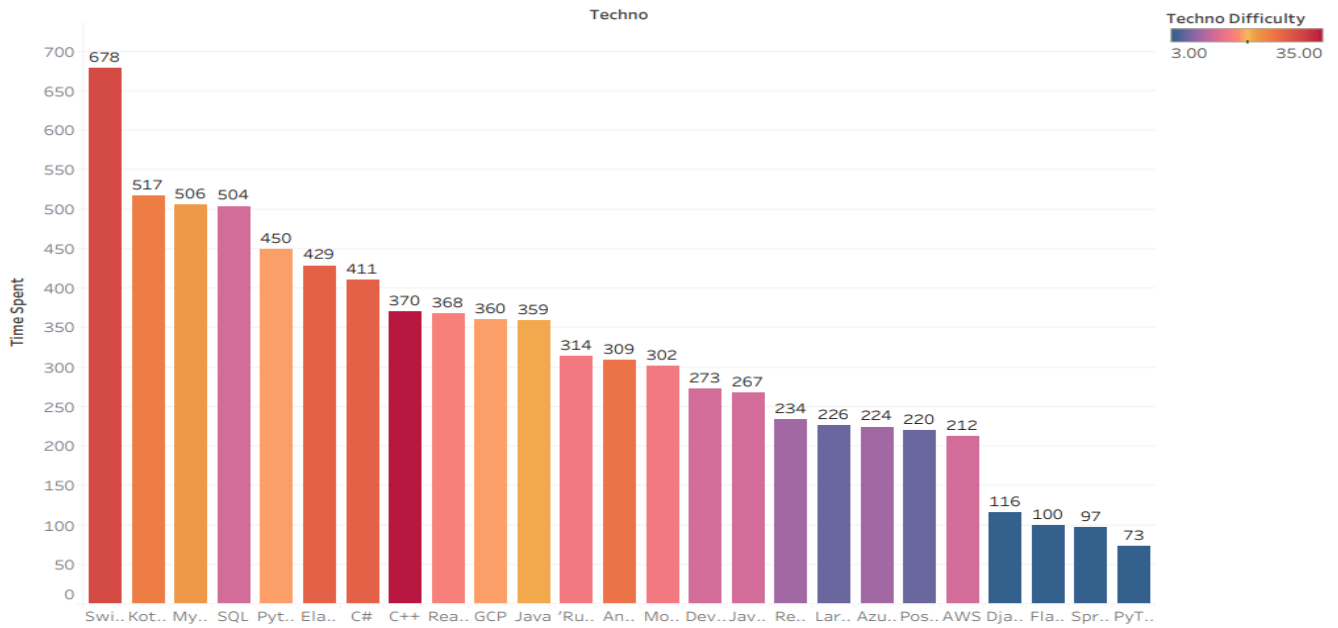## Device Usage

Device
■ Desktop
■ Mobile
■ Tablet

Device. Color shows details about Device. The marks are labeled by Device. The data is filtered on Action (Predicted Status), Action (Country,Predicted Status) and Action (Techno). The Action (Predicted Status) filter keeps 3 members. The Action (Country,Predicted Status) filter keeps 15 members. The Action (Techno) filter keeps 30 members.

Overall Status

Predicted Status
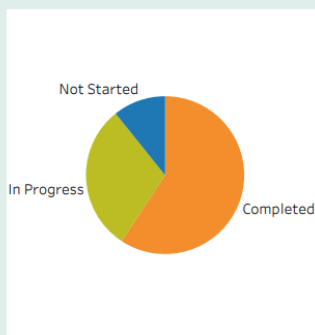■ Completed
■ In Progress
■ Not Started

Predicted Status. Color shows details about Predicted Status. The marks are labeled by Predicted Status. The data is filtered on Action (Country,Predicted Status), Action (Access Day Of Week,Month-Year) and Action (Techno). The Action (Country,Predicted Status) filter keeps 15 members. The Action (Access Day Of Week,Month-Year) filter keeps 1 member. The Action (Techno) filter keeps 30 members.

Tech Time Spent

Techno

Techno Difficulty
3.00 — 35.00

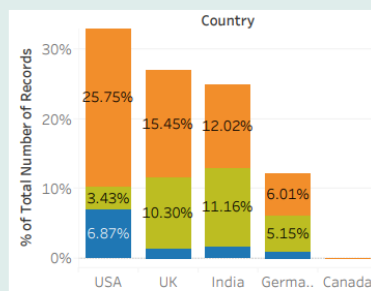|	
Swi..	678
Kot..	517
My..	506
SQL	504
Pyt..	450
Ela..	429
C#	411
C++	370
Rea..	368
GCP	360
Java	359
'Ru..	314
An..	309
Mo..	302
Dev..	273
Jav..	267
Re..	234
Lar..	226
Azu..	224
Pos..	220
AWS	212
Dja..	116
Fla..	100
Spr..	97
PyT..	73

Sum of Time Spent for each Techno. Color shows sum of Techno Difficulty. The data is filtered on Action (Predicted Status), Action (Country,Predicted Status) and Action (Access Day Of Week,Month-Year). The Action (Predicted Status) filter keeps 3 members. The Action (Country,Predicted Status) filter keeps 15 members. The Action (Access Day Of Week,Month-Year) filter keeps 1 member.
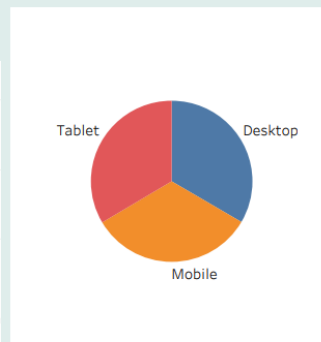
Overall Status

Not Started · In Progress · Completed

Country-wise Status

Country

% of Total Number of Records

Country	Completed	In Progress	Not Started
USA	25.75%	3.43%	6.87%
UK	15.45%	10.30%	
India	12.02%	11.16%	
Germa..	6.01%	5.15%	
Canada			

Device Usage

Tablet · Desktop · Mobile

Predicted Status
- Completed
- In Progress
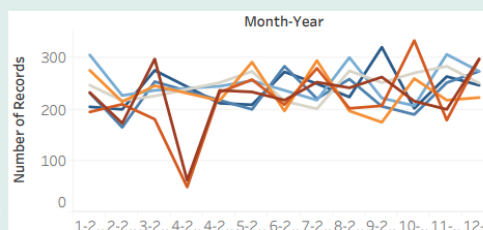- Not Started

Access Day Of Week
0 — 6

Techno Difficulty
3.00 — 35.00

Device
- Desktop
- Mobile
- Tablet

Tech Time Spent

Techno

Time Spent

678, 517, 506, 504, 450, 429, 411, 370, 368, 360, 359, 314, 309, 302, 273, 267, 234, 226, 224, 220, 212, 116, 100, 97, 73

S.. K.. M.. S.. P.. E.. C# C.. R.. G.. J.. '.. A.. M.. D.. J.. R.. L.. A.. P.. A.. D.. F.. S.. P..

Access Trends

Month-Year

Number of Records

1-2.. 2-2.. 3-2.. 4-2.. 4-2.. 5-2.. 6-2.. 7-2.. 8-2.. 9-2.. 10-.. 11-.. 12-..
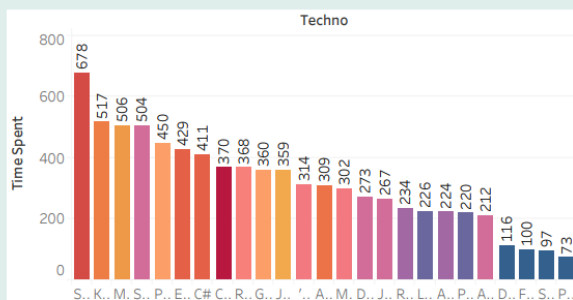
PYTHON PART-Cleaned insights of data

Total Unique Users per Course

Average Time Spent per Course

Overall Course Completion Status

Device Usage Distribution

Engagement by Country
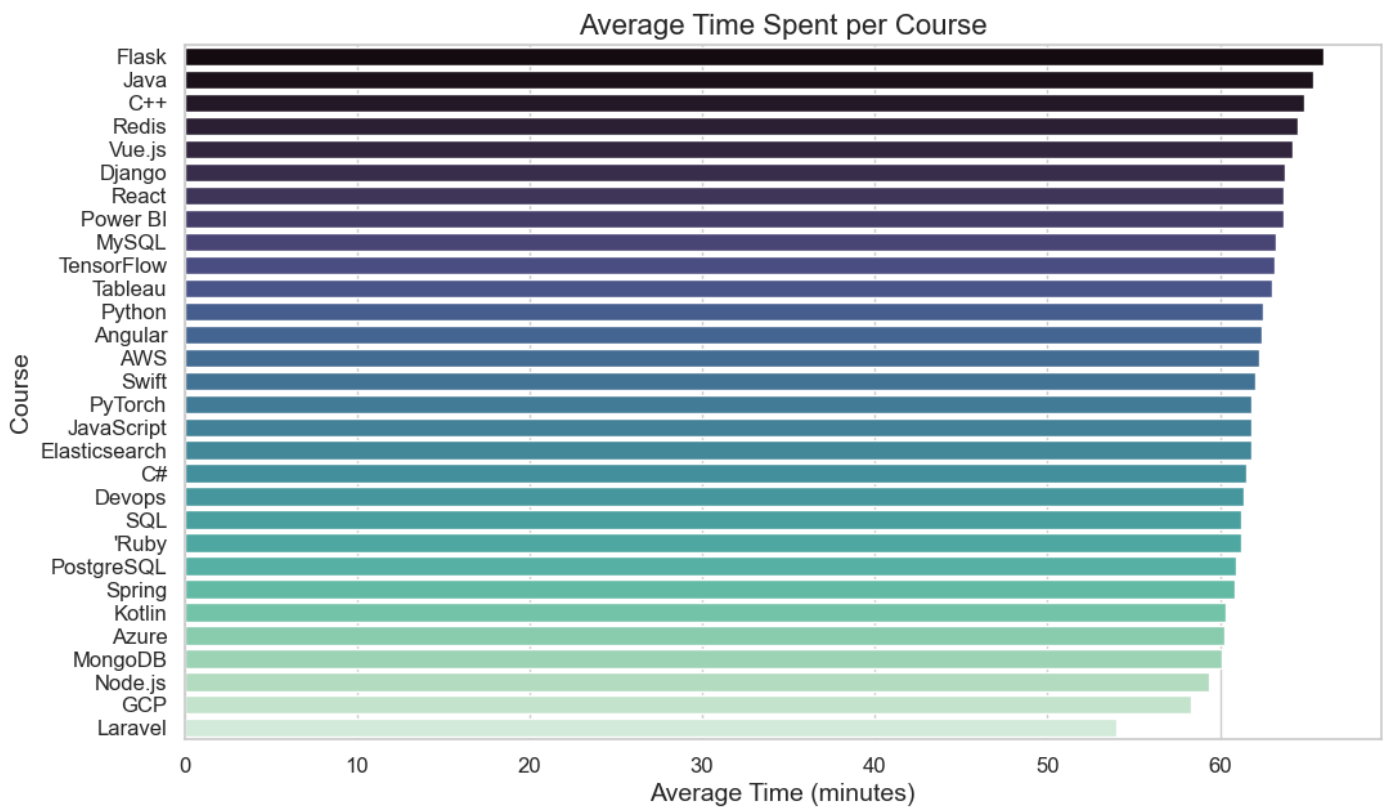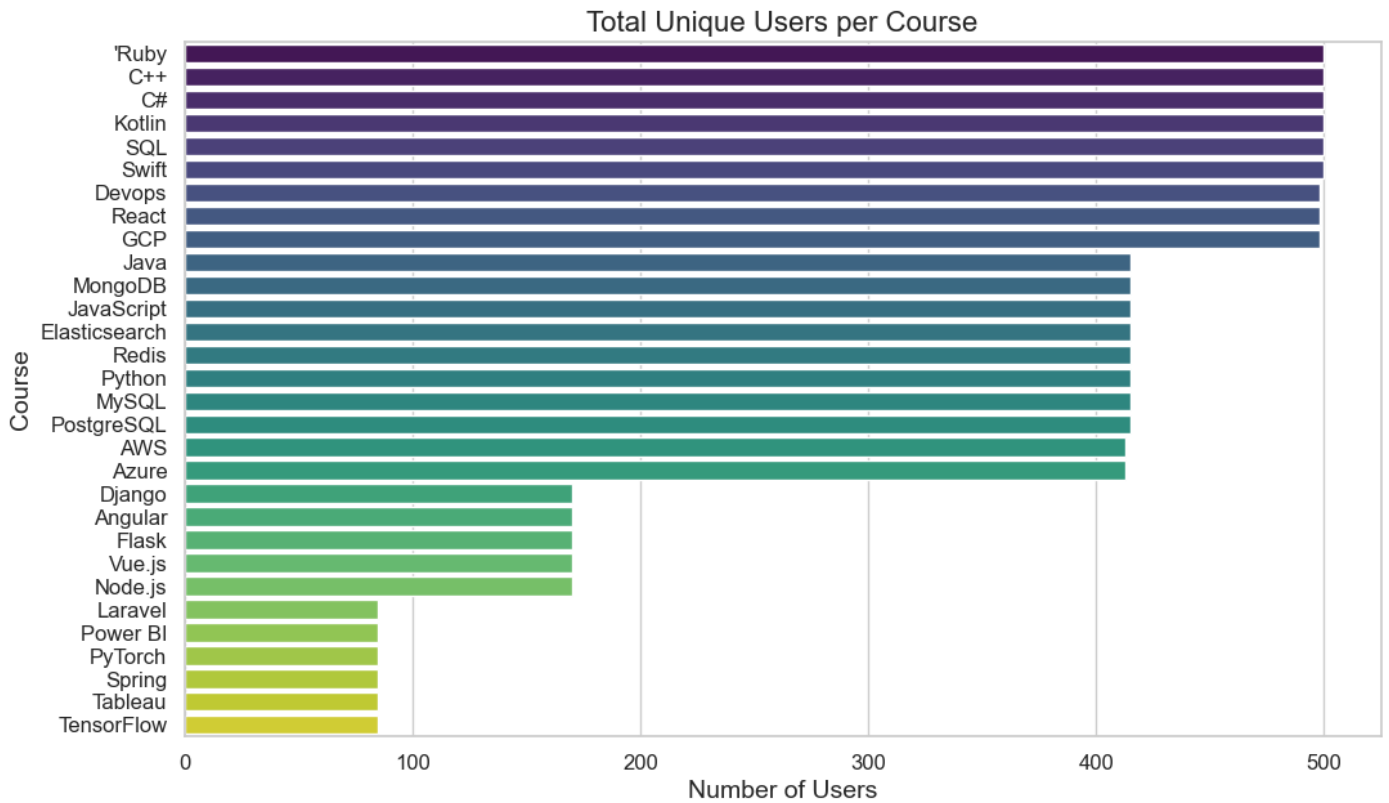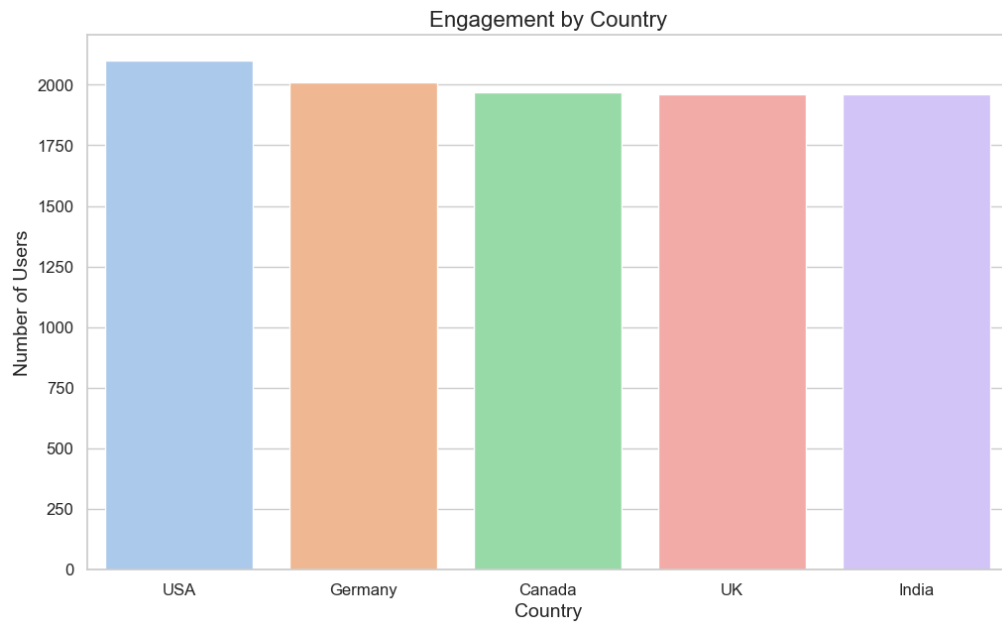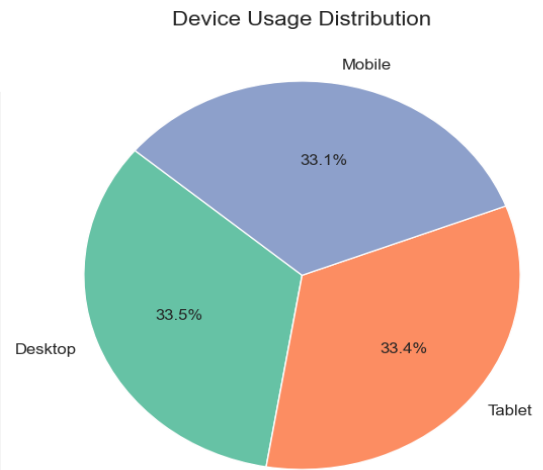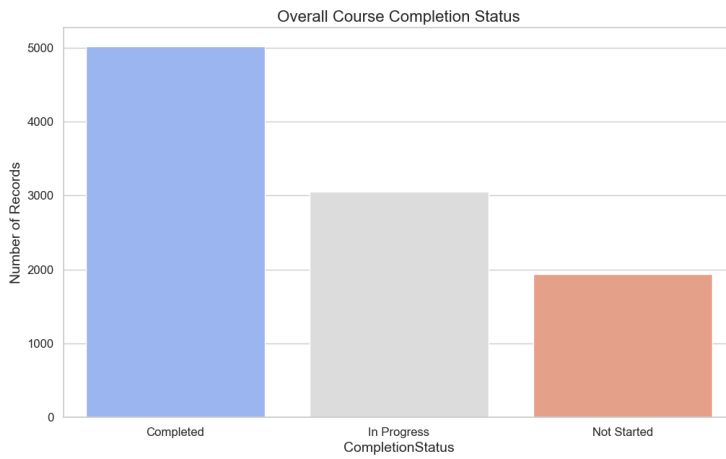
RF PREDICTIONS MODEL-Results

Feature Importance in LMS Prediction

Confusion Matrix - LMS Model

Time Spent vs Completion Probability

Actual vs Predicted Status Distribution