Lead Score
Logistic Regression

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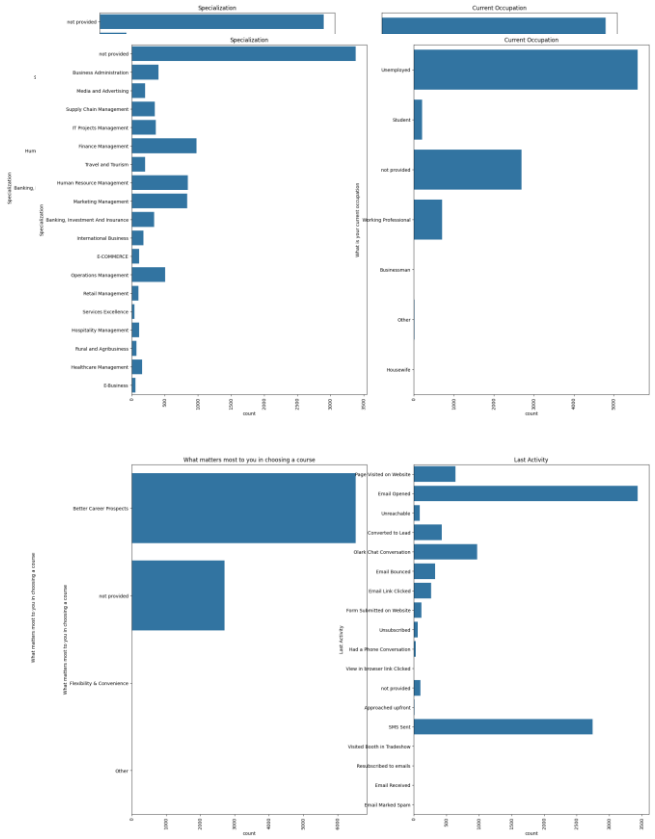
Business Problem & Approach

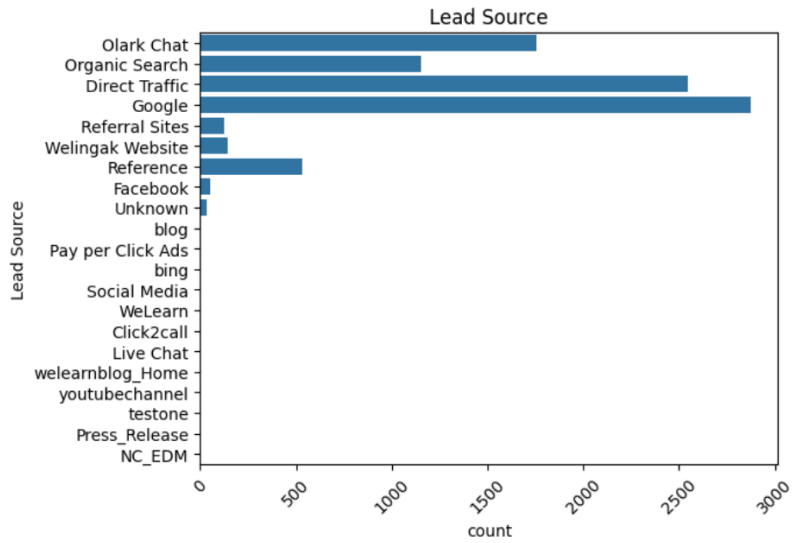
Business Problem:	An education company named X Education sells online courses to industry professionals. On any given day, many professionals who are interested in the courses land on their website and browse for courses X Education offers online courses for industry professionals. Despite receiving numerous leads, their conversion rate is quite low. (30%). To make this process more efficient, the company wishes to identify the most potential leads, also known as 'Hot Leads'
Approach:	**Lead Data:** files has been provided with leads information containing approximately 9,000 data points Perform Data Cleaning and EDA Develop a model to identify leads with a conversion probability greater than 80%

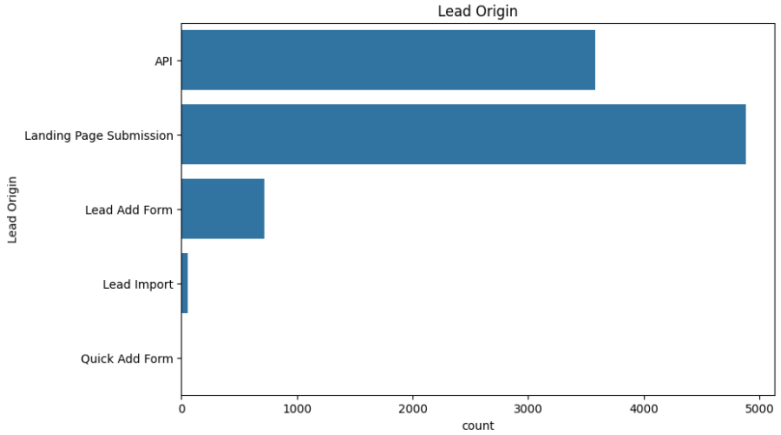
Detailed Approach

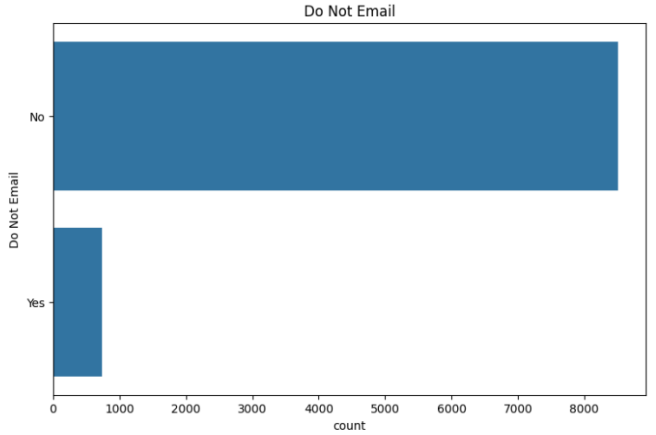
- Import data & Perform data checks
- EDA
- Dummy Variable creation
- Test- Train Split
- Feature scaling
- Model building
  - Features selection – RFE
  - Checking correlation between variables i.e., VIF and p-values
- Model Evaluation
- Making predictions

EDA

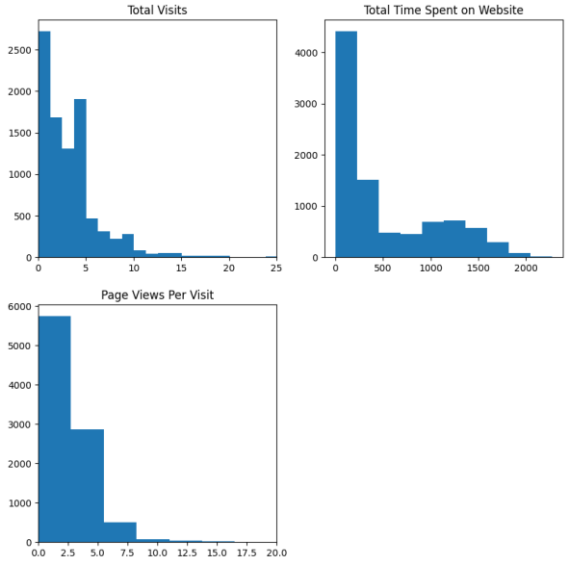

Specialization
not provided
Business Administration
Media and Advertising
Supply Chain Management
IT Projects Management
Finance Management
Travel and Tourism
Human Resource Management
Marketing Management
Banking, Investment And Insurance
International Business
E-COMMERCE
Operations Management
Retail Management
Services Excellence
Hospitality Management
Rural and Agribusiness
Healthcare Management
E-Business
Current Occupation
Unemployed
Student
not provided
Working Professional
Businessman
Other
Housewife
What matters most to you in choosing a course
Better Career Prospects
not provided
Flexibility & Convenience
Other
Last Activity
Page Visited on Website
Email Opened
Unreachable
Converted to Lead
Olark Chat Conversation
Email Bounced
Email Link Clicked
Form Submitted on Website
Unsubscribed
Had a Phone Conversation
View in browser link Clicked
not provided
Approached upfront
SMS Sent
Visited Booth in Tradeshow
Resubscribed to emails
Email Received
Email Marked Spam
count

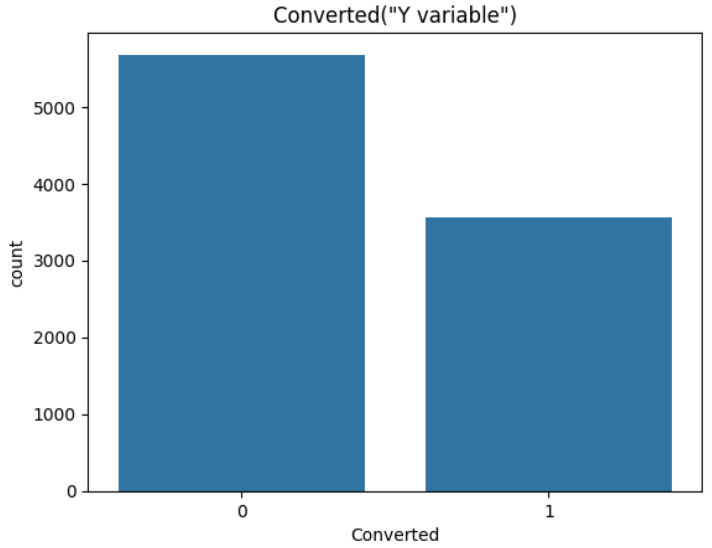

Lead Source
Olark Chat
Organic Search
Direct Traffic
Google
Referral Sites
Welingak Website
Reference
Facebook
Unknown
blog
Pay per Click Ads
bing
Social Media
WeLearn
Click2call
Live Chat
welearnblog_Home
youtubechannel
testone
Press_Release
NC_EDM
Lead Source
0
500
1000
1500
2000
2500
3000
count

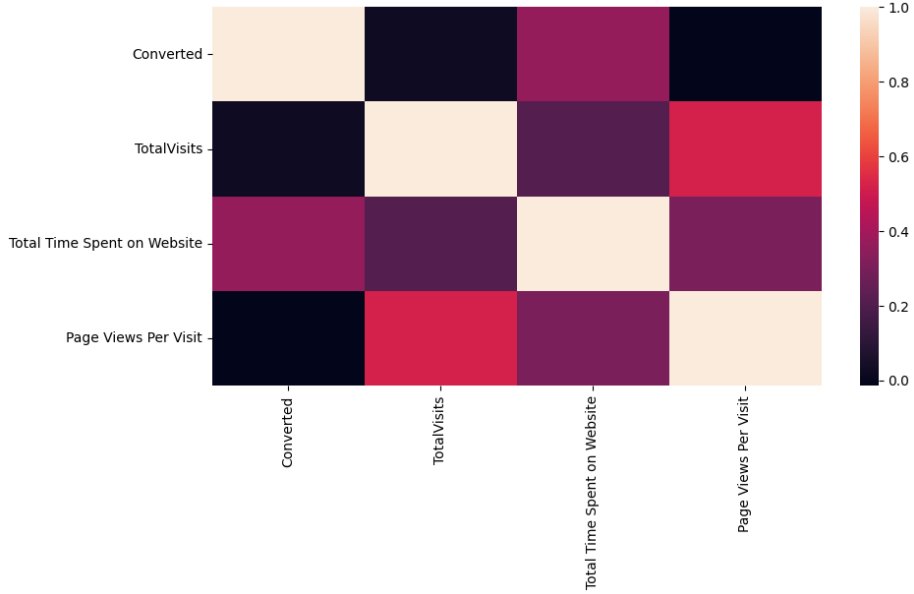

Lead Origin
API
Landing Page Submission
Lead Add Form
Lead Import
Quick Add Form
Lead Origin
0
1000
2000
3000
4000
5000
count


Do Not Email
No
Yes
Do Not Email
0
1000
2000
3000
4000
5000
6000
7000
8000
count

EDA


Total Visits
Total Time Spent on Website
Page Views Per Visit


Converted("Y variable")
count
Converted


Converted
TotalVisits
Total Time Spent on Website
Page Views Per Visit

Observations

Train test Data

Accuracy: 82%

Sensitivity: 69%

Specificity: 89%

Test test Data

Accuracy: 82%

Sensitivity: 75%

Specificity: 86%

- Feature list
  - Do Not Email
  - Total Time Spent on Website
  - Lead Origin_Lead Add Form
  - Lead Source_Welingak Website
  - Last Activity
    - Had a Phone Conversation
    - SMS Sent