

Lead Scoring Assignment

A Case Study

Problem Statement:

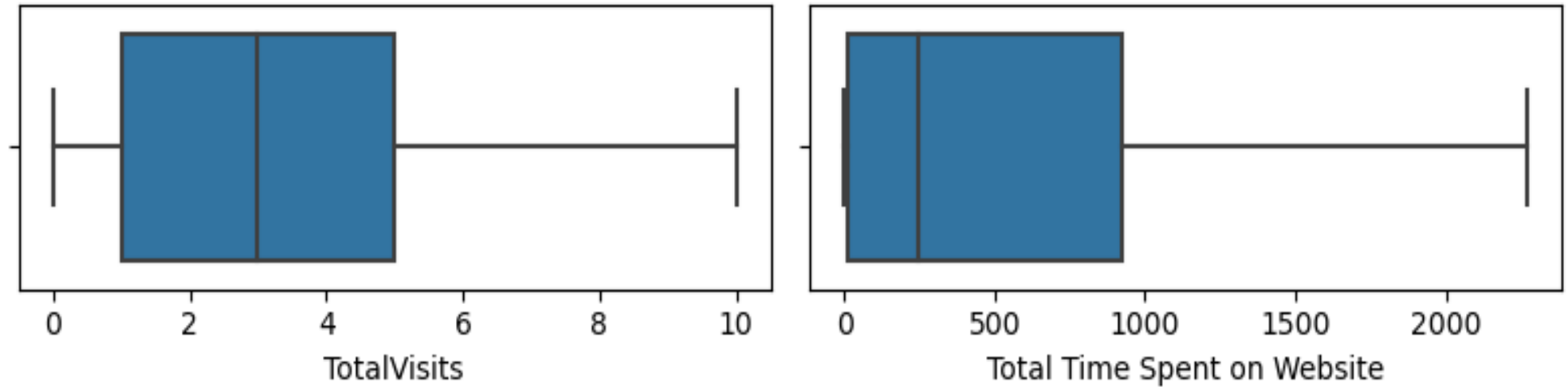
An education company named X Education sells online courses to industry professionals. On any given day, many professionals who are interested in the courses land on their website and browse for courses.

The company markets its courses on several websites and search engines like Google. Once these people land on the website, they might browse the courses or fill up a form for the course or watch some videos. When these people fill up a form providing their email address or phone number, they are classified to be a lead. Moreover, the company also gets leads through past referrals. Through this process, some of the leads get converted while most do not. The typical lead conversion rate at X education is around 30%. Although X Education gets a lot of leads, its lead conversion rate is very poor.

X Education has appointed you to help them select the most promising leads, i.e. the leads that are most likely to convert into paying customers. The company requires you to build a model wherein you need to assign a lead score to each of the leads such that the customers with a higher lead score have a higher conversion chance and the customers with a lower lead score have a lower conversion chance. The CEO, in particular, has given a ballpark of the target lead conversion rate to be around 80%.

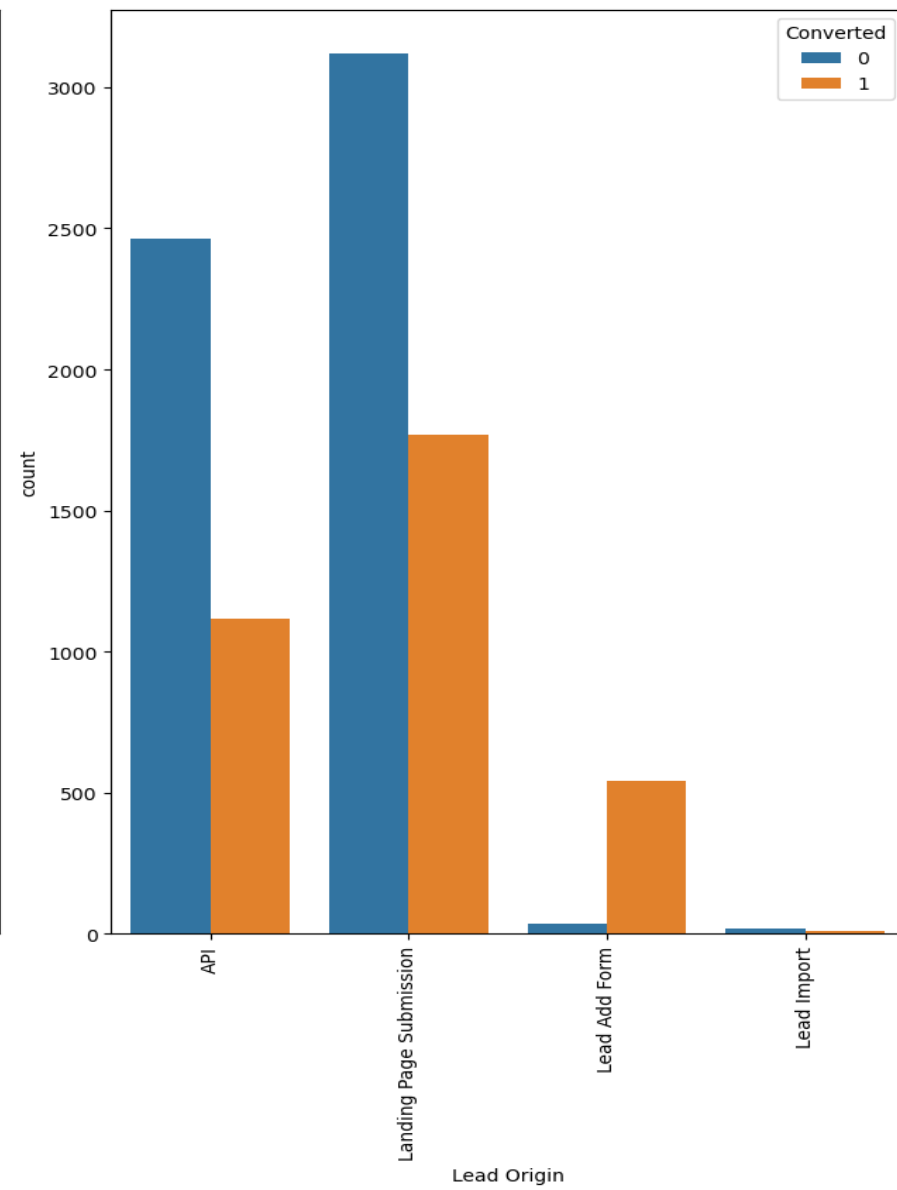
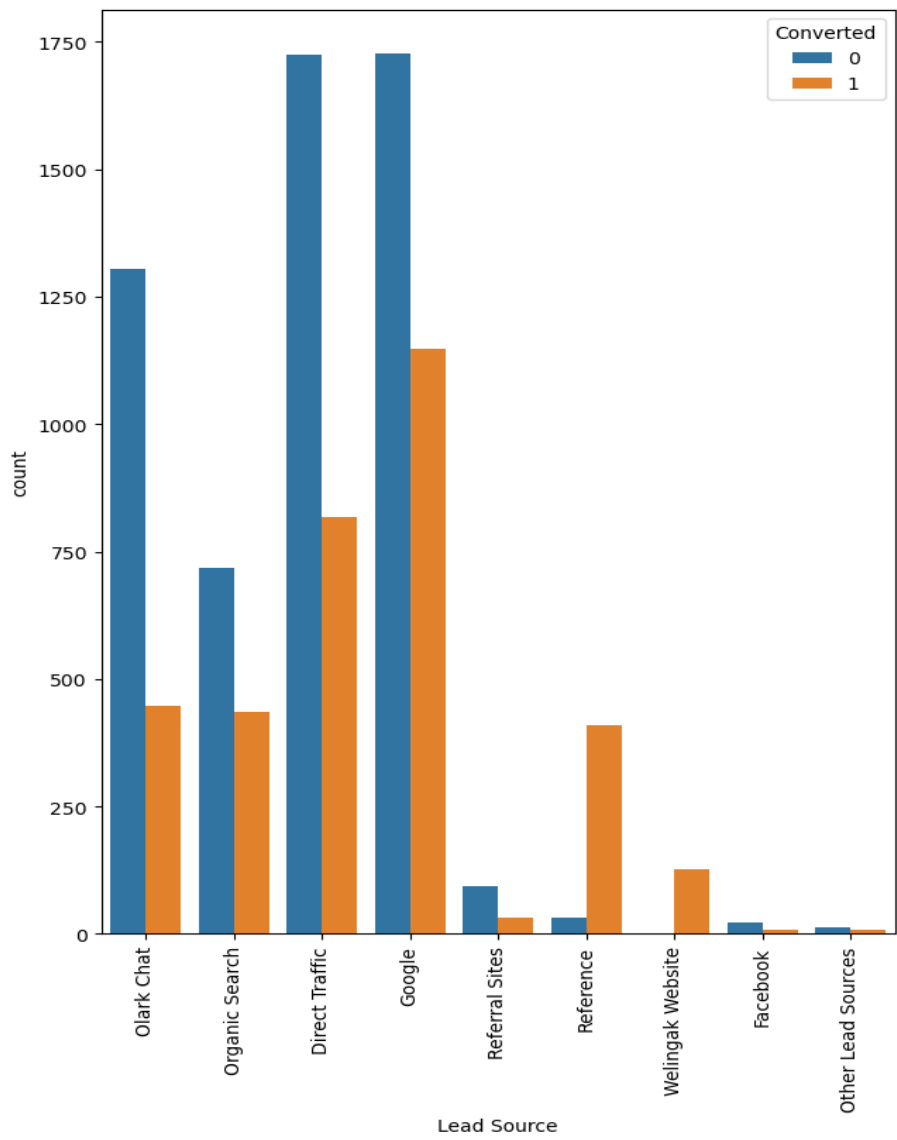
A BRIEF APPROACH METHOD:

- ▶ **Import Data, Inspect the DataFrame**
- ▶ **Data Preparation (Handling of Null Values, Outliers etc.)**
- ▶ **Exploratory Data Analysis (Through Visualization)**
- ▶ **Model Building (Dummy creations, Train-Test set splitting, Feature Scaling etc.)**
- ▶ **Model Tuning (Feature Selections, VIF Inspection etc.)**
- ▶ **Model Evaluation (Sensitivity, Specificity and many others.)**
- ▶ **Finalization (ROC Curve, Precision-Recall Trade-off etc.)**



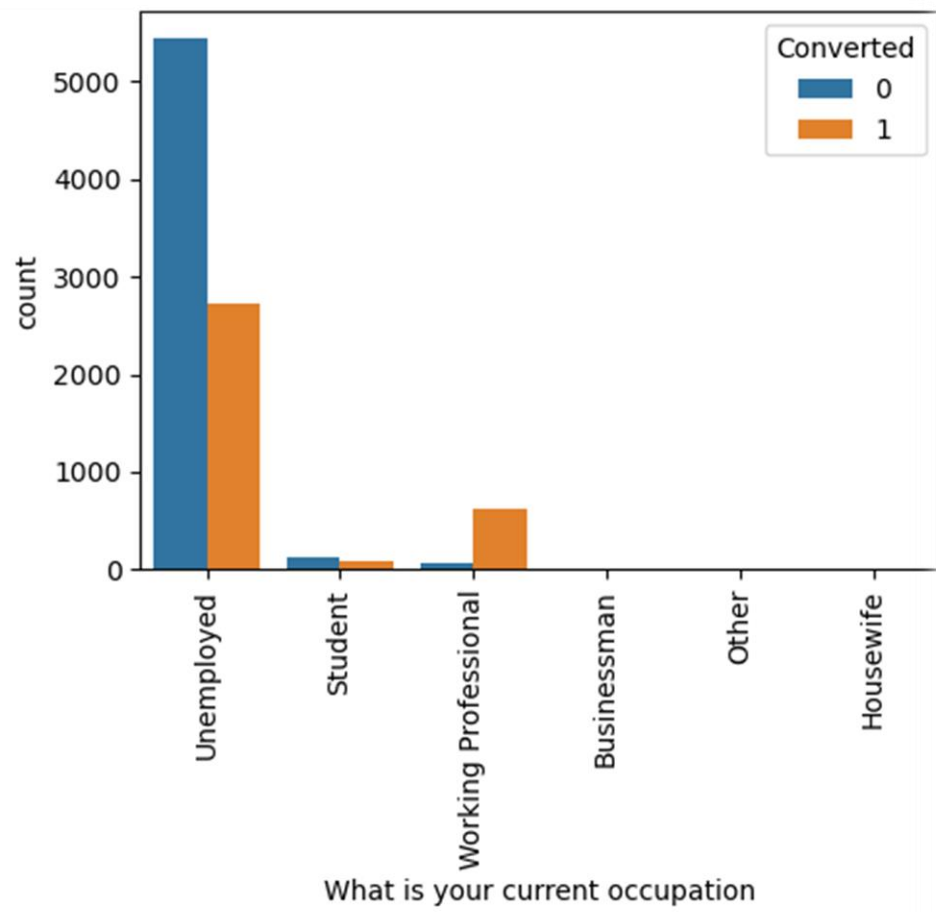
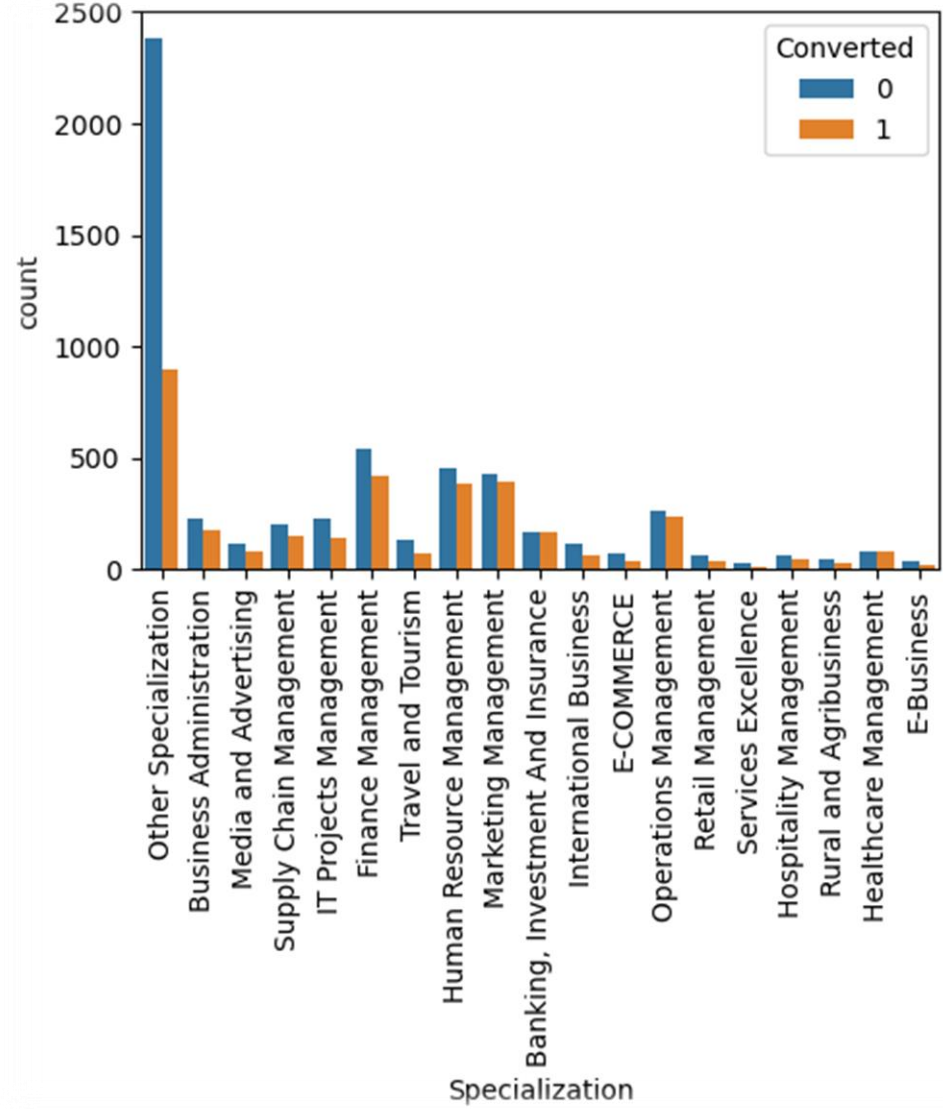
OBSERVATION:

Users who spend more time on the platform are likely to get converted. Which means the platform should be made to look more appealing and resourceful for users.



OBSERVATION:

- ▶ **Landing Page Submission** and **API** have high count but moderate conversion rate.
- ▶ The same goes for **Google** and **Direct Traffic**.
- ▶ Focusing on **API** and **Landing Page Submission** might yield more conversions.



OBSERVATION:

- ▶ Counts on **Other Specialization** are quite high but have moderate conversion rate.
- ▶ The same can be said about **Unemployed**.
- ▶ **Working Professionals** have high conversion rate.
- ▶ Reaching more **Working Professional** leads may lead to more conversions.

The background of the slide is composed of several overlapping, semi-transparent green triangles and polygons of various shades, ranging from a light lime green to a dark forest green. These shapes are primarily located on the right side of the slide, with some extending towards the center. The overall effect is a modern, geometric design.

**THE
END**