

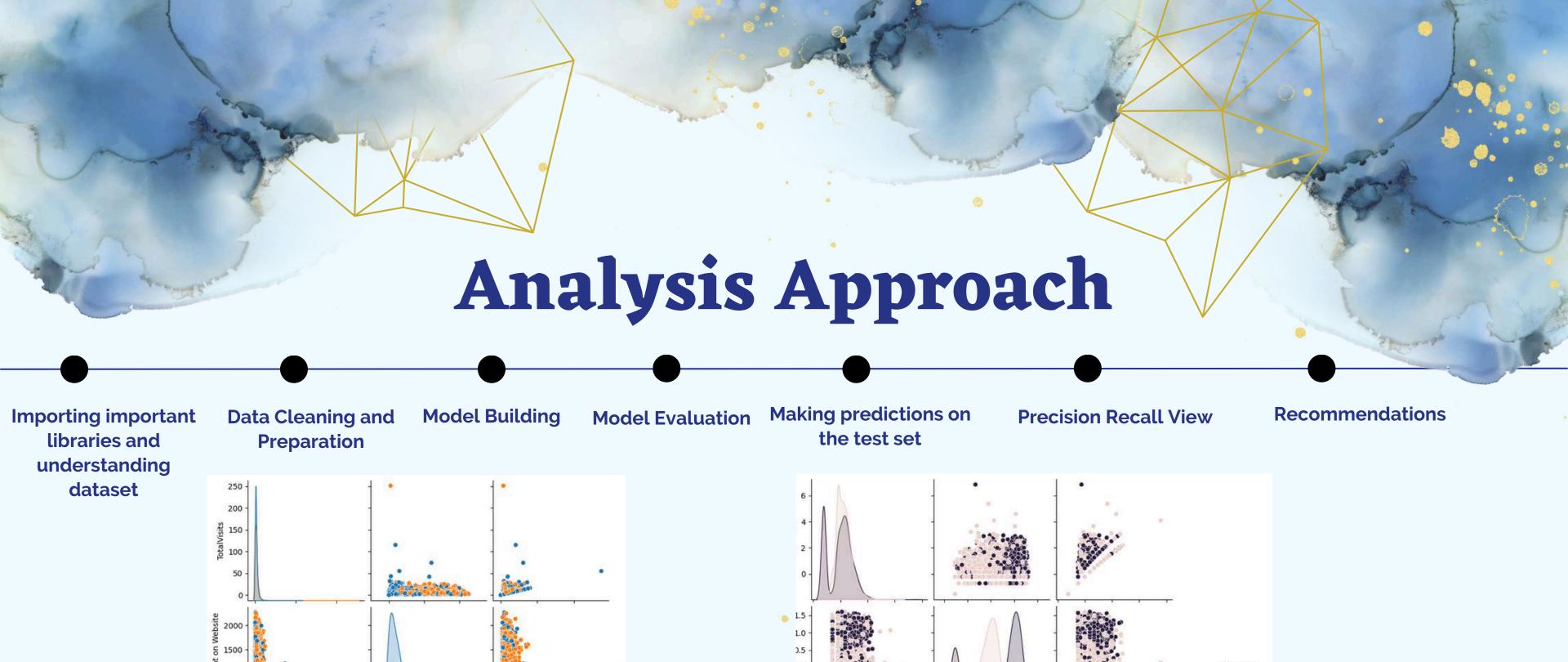
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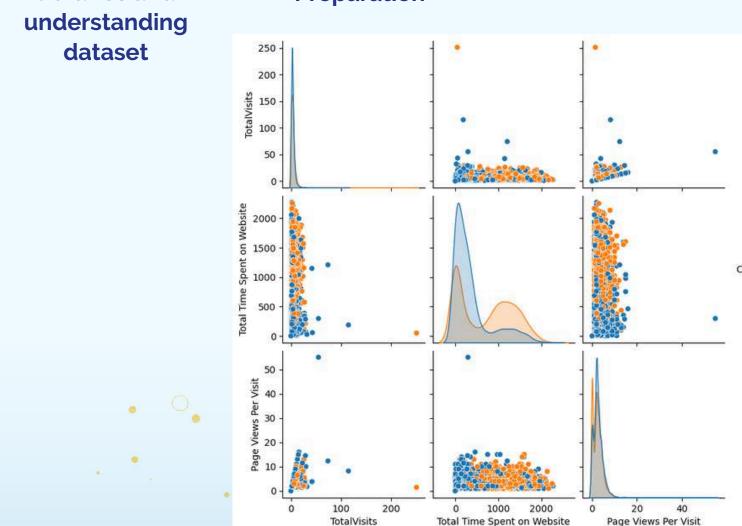


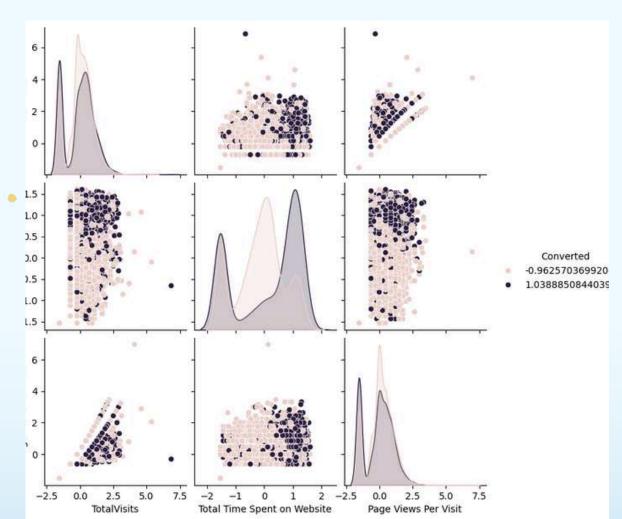
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Understanding Problem Statement

- **1.) Low Lead Conversion Rate:** Despite acquiring a significant number of leads daily, X Education has a low conversion rate of around 30%, indicating inefficiency in converting leads into paying customers.
- 2.) Identification of 'Hot Leads': The company lacks an effective method to identify the most promising leads (hot leads), which could enhance the focus and efficiency of the sales team's efforts.
- **3.) Need for Predictive Model:** X Education requires a predictive model to assign lead scores, helping to prioritize leads based on their likelihood of conversion, with an ambitious target conversion rate of around 80%.



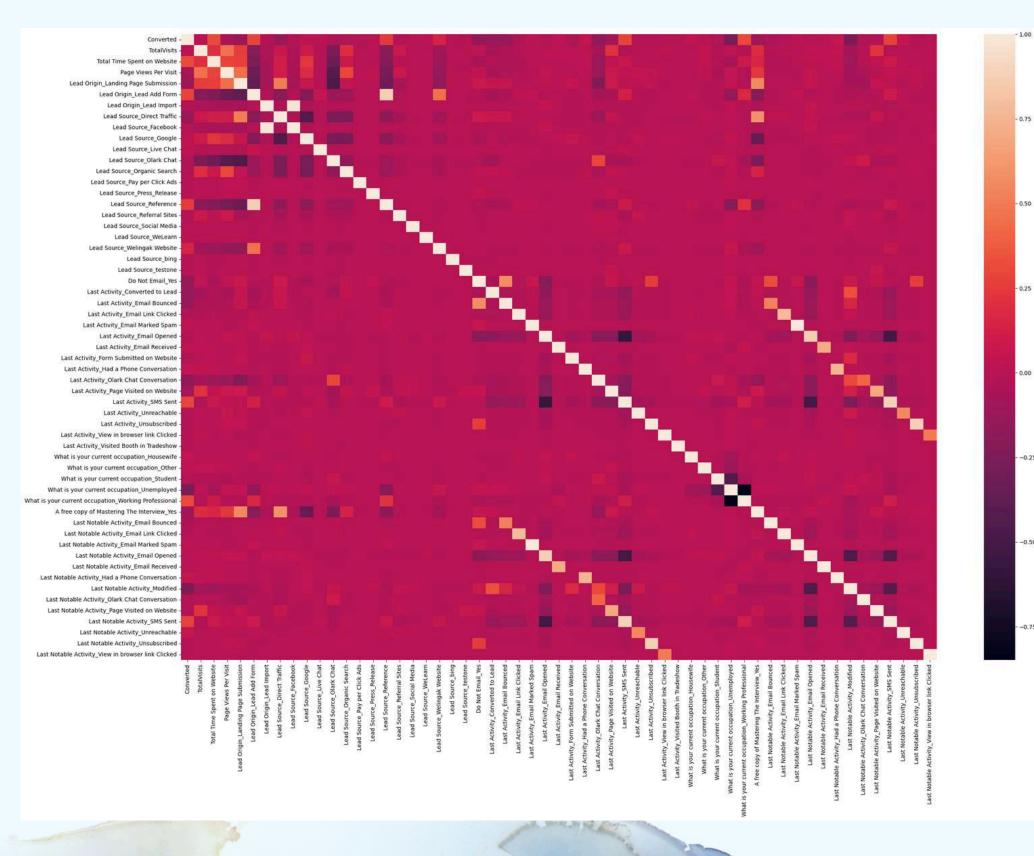




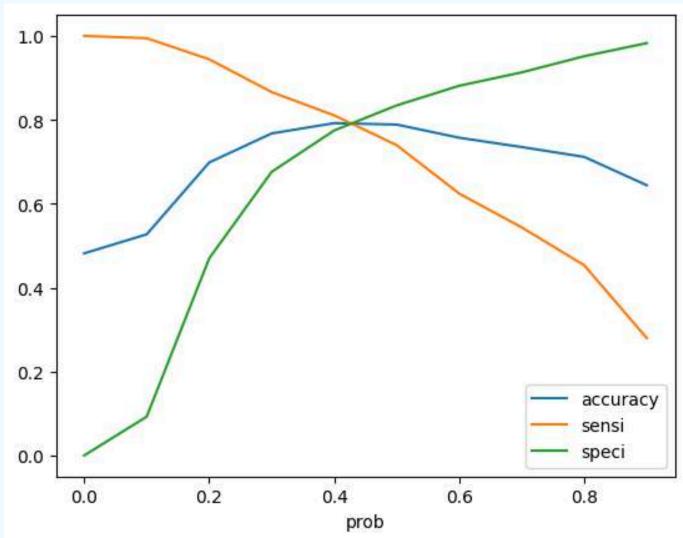
Understanding key co-relations

Observations

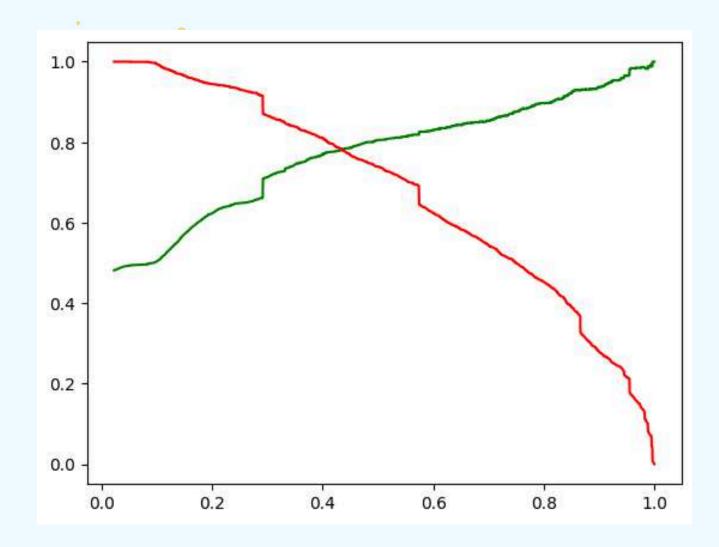
- There is a high correlation of 0.98 between 'Lead Source_Facebook' and 'Lead Origin_Lead Import'.
- Do Not Email' and 'Last Activity_Email Bounced' also show a high correlation.
- Lead Origin_Lead Add Form' and 'Lead Source_Reference' have a correlation of 0.85.
- TotalVisits' and 'Page Views Per Visit' exhibit a correlation of 0.72..
- Lead Origin_Lead Add Form', 'Lead Source_Welingak Website', 'Last Activity_SMS Sent', and 'What is your current Occupation_Working Professionals' all have a positive correlation with the target variable 'Converted'.



Solution Understanding (Technical aspects)



- Optimum Cut-off 0.42
- Sensitivity and Specificity App. 79% (Train Set)
- Sensitivity and Specificity 77% and 79% respectively. (Test Set)



- Threshold Cut-off 0.44
- Final Precision and Recall App. 78%
 (Test Set)

Solution Understanding (Business aspects)

Important variables for getting potential buyers are (In descending order):

- 1. The total time spends on the Website.
- 2. Total number of visits.
- 3. When the lead source was:
- -Google
- -Direct traffic
- -Organic search
- -Welingak website
- 4. When the last activity was:
- -SMS
- -Olark chat conversation
- 5. When the lead origin is Lead add format.
- 6. When their current occupation is as a working professional.



Recommendation

- Many leads are generated initially, but only a few become paying customers.
- Nurture potential leads by educating them about the product and maintaining constant communication to increase conversion rates.
- First, identify the best prospects using 'Total Visits,' 'Total Time Spent on Website,' and 'Page Views Per Visit,' which are key indicators of lead conversion.
- Keep a list of leads ready to inform them about new courses, services, job offers, and future study opportunities.
- Monitor each lead closely to tailor the information you provide.
- Offer job opportunities, information, or courses that align with the lead's interests.
- Create a detailed plan to address the needs of each lead to convert them into prospects.
- Focus on converted leads.
- Conduct Q&A sessions with leads to gather necessary information, make further inquiries, and set appointments to assess their intention and willingness to join online courses.

