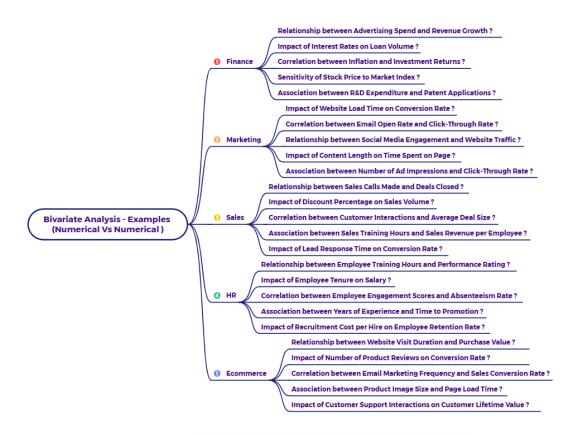
Types of Questions that can be answered by Bivariate analysis - Numerical Vs Numerical variable



1. Finance:

- Relationship between Advertising Spend and Revenue Growth: Is
 there a correlation between the amount spent on advertising
 campaigns (numerical) and the percentage increase in revenue
 (numerical)?
- Impact of Interest Rates on Loan Volume: How does the prevailing interest rate (numerical) relate to the total volume of loans disbursed (numerical)?
- Correlation between Inflation and Investment Returns: Is there a relationship between the inflation rate (numerical) and the returns on specific investment portfolios (numerical)?
- Sensitivity of Stock Price to Market Index: How does a company's stock price (numerical) move in relation to changes in a major market index like the S&P 500 (numerical)?

• Association between R&D Expenditure and Patent Applications: Is there a correlation between the amount a company invests in research and development (numerical) and the number of patent applications filed (numerical)?

2. Marketing:

- Impact of Website Load Time on Conversion Rate: Is there a relationship between the average loading time of a website (numerical) and the percentage of visitors who complete a purchase (numerical)?
- Correlation between Email Open Rate and Click-Through Rate: How does the percentage of recipients who open an email campaign (numerical) relate to the percentage who click on a link within the email (numerical)?
- Relationship between Social Media Engagement and Website
 Traffic: Is there a correlation between the number of likes, shares, and comments on social media posts (numerical) and the number of visits to the company website (numerical)?
- Impact of Content Length on Time Spent on Page: How does the word count of a blog post or web page (numerical) relate to the average time visitors spend on that page (numerical)?
- Association between Number of Ad Impressions and Click-Through Rate: Is there a relationship between the number of times an online advertisement is shown (numerical) and the percentage of times it is clicked (numerical)?

3. Sales:

- Relationship between Sales Calls Made and Deals Closed: Is there a
 correlation between the number of sales calls a representative makes
 (numerical) and the number of deals they successfully close
 (numerical)?
- Impact of Discount Percentage on Sales Volume: How does the percentage discount offered on a product (numerical) relate to the quantity of that product sold (numerical)?
- Correlation between Customer Interactions and Average Deal Size:

 Is there a relationship between the number of interactions a

- salesperson has with a prospect (numerical) and the average value of the deals they close with that prospect (numerical)?
- Association between Sales Training Hours and Sales Revenue per Employee: Is there a correlation between the number of hours of sales training an employee receives (numerical) and the total revenue they generate (numerical)?
- Impact of Lead Response Time on Conversion Rate: How does the time taken to respond to a sales lead (numerical, e.g., in hours) relate to the percentage of those leads that convert into customers (numerical)?

4. HR (Human Resources):

- Relationship between Employee Training Hours and Performance Rating: Is there a correlation between the number of hours an employee spends in training (numerical) and their performance review score (numerical)?
- Impact of Employee Tenure on Salary: How does the length of time an employee has been with the company (numerical, e.g., in years) relate to their current salary (numerical)?
- Correlation between Employee Engagement Scores and Absenteeism Rate: Is there a relationship between employee engagement survey scores (numerical) and the percentage of workdays employees are absent (numerical)?
- Association between Years of Experience and Time to Promotion:
 Is there a correlation between an employee's total years of professional experience (numerical) and the time it takes for them to get promoted (numerical, e.g., in years)?
- Impact of Recruitment Cost per Hire on Employee Retention Rate: How does the amount spent on recruiting a new employee (numerical) relate to the percentage of those employees who stay with the company for more than a year (numerical)?

5. Ecommerce:

• Relationship between Website Visit Duration and Purchase Value: Is there a correlation between the average time a visitor spends on

- the website (numerical, e.g., in minutes) and the average value of their order (numerical)?
- Impact of Number of Product Reviews on Conversion Rate: How does the number of reviews a product has (numerical) relate to the percentage of visitors who view the product and then purchase it (numerical)?
- Correlation between Email Marketing Frequency and Sales
 Conversion Rate: Is there a relationship between the number of
 marketing emails sent per week (numerical) and the percentage of
 recipients who make a purchase (numerical)?
- Association between Product Image Size and Page Load Time: Is there a correlation between the file size of product images (numerical, e.g., in kilobytes) and the time it takes for the product page to load (numerical, e.g., in seconds)?
- Impact of Customer Support Interactions on Customer Lifetime Value: How does the number of customer support interactions a customer has (numerical) relate to their total spending with the company over their relationship (numerical)?