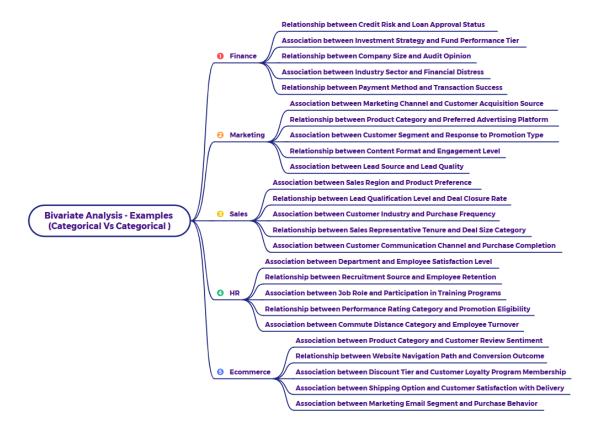
Types of Business Questions that can be answered by Bivariate analysis



1. Finance:

- Relationship between Credit Risk and Loan Approval Status: Is there
 an association between different credit risk categories (e.g., High,
 Medium, Low) and the status of a loan application (e.g., Approved,
 Rejected)?
- Association between Investment Strategy and Fund Performance Tier:
 Is there a relationship between the investment strategy employed by
 a fund (e.g., Growth, Value, Index) and its performance tier (e.g., Top
 Quartile, Second Quartile, Bottom Half)?
- Relationship between Company Size and Audit Opinion: Is there an
 association between the size of a company (e.g., Small, Medium, Large)
 and the type of audit opinion received (e.g., Unqualified, Qualified)?
- Association between Industry Sector and Financial Distress: Is there
 a relationship between the industry sector a company operates in (e.g.,

- Technology, Manufacturing, Retail) and its level of financial distress (e.g., High, Medium, Low)?
- Relationship between Payment Method and Transaction Success: Is there an association between the payment method used (e.g., Credit Card, Debit Card, Bank Transfer) and the success status of the transaction (e.g., Successful, Failed)?

2. Marketing:

- Association between Marketing Channel and Customer Acquisition Source: Is there a relationship between the primary marketing channel used (e.g., Social Media, Email, Paid Search) and the initial source through which a customer was acquired (e.g., Website, Referral, Event)?
- Relationship between Product Category and Preferred Advertising Platform: Is there an association between the type of product being marketed (e.g., Electronics, Apparel, Home Goods) and the advertising platform customers recall most (e.g., Facebook, Google, TV)?
- Association between Customer Segment and Response to Promotion
 Type: Is there a relationship between different customer segments
 (e.g., Loyal Customers, New Customers, Price-Sensitive) and their
 likelihood to respond to different types of promotions (e.g., Discount,
 Free Shipping, Bundle)?
- Relationship between Content Format and Engagement Level: Is there
 an association between the format of marketing content (e.g., Blog
 Post, Video, Infographic) and the level of user engagement (e.g., High,
 Medium, Low)?
- Association between Lead Source and Lead Quality: Is there a
 relationship between the source of a marketing lead (e.g., Webinar,
 Whitepaper Download, Contact Form) and the perceived quality of
 that lead (e.g., High Potential, Low Potential)?

3. Sales:

Association between Sales Region and Product Preference: Is there a
relationship between the geographical sales region (e.g., North, South,
East, West) and the preferred product line among customers in that
region?

- Relationship between Lead Qualification Level and Deal Closure Rate:
 Is there an association between the qualification level of a sales lead (e.g., Hot, Warm, Cold) and the likelihood of that lead resulting in a closed deal (e.g., Closed Won, Closed Lost)?
- Association between Customer Industry and Purchase Frequency: Is
 there a relationship between the industry a customer belongs to (e.g.,
 Healthcare, Education, Finance) and their frequency of making
 purchases (e.g., High, Medium, Low)?
- Relationship between Sales Representative Tenure and Deal Size
 Category: Is there an association between the tenure of a sales
 representative (e.g., New, Experienced, Senior) and the typical size
 category of the deals they close (e.g., Small, Medium, Large)?
- Association between Customer Communication Channel and Purchase Completion: Is there a relationship between the primary communication channel used with a customer (e.g., Email, Phone, In-Person) and the likelihood of them completing a purchase?

4. HR (Human Resources):

- Association between Department and Employee Satisfaction Level: Is there a relationship between the department an employee works in (e.g., Marketing, Engineering, Sales) and their level of job satisfaction (e.g., High, Medium, Low)?
- Relationship between Recruitment Source and Employee Retention: Is there an association between the source through which an employee was hired (e.g., Referral, Job Board, Agency) and their retention status (e.g., Still Employed, Terminated)?
- Association between Job Role and Participation in Training Programs:
 Is there a relationship between an employee's job role (e.g., Analyst, Manager, Director) and their participation in different types of training programs (e.g., Technical, Leadership, Soft Skills)?
- Relationship between Performance Rating Category and Promotion
 Eligibility: Is there an association between an employee's performance
 rating category (e.g., Exceeds Expectations, Meets Expectations,
 Needs Improvement) and their eligibility for promotion (e.g., Eligible,
 Not Eligible)?

Association between Commute Distance Category and Employee
 Turnover: Is there a relationship between the category of an
 employee's commute distance (e.g., Short, Medium, Long) and their
 likelihood of leaving the company?

5. Ecommerce:

- Association between Product Category and Customer Review
 Sentiment: Is there a relationship between the category of a product purchased (e.g., Electronics, Clothing, Books) and the overall sentiment of customer reviews (e.g., Positive, Negative, Neutral)?
- Relationship between Website Navigation Path and Conversion
 Outcome: Is there an association between the sequence of pages a
 user visits on the website (categorized by common paths) and whether
 they complete a purchase (e.g., Purchase, No Purchase)?
- Association between Discount Tier and Customer Loyalty Program
 Membership: Is there a relationship between the discount tier a
 customer typically receives (e.g., No Discount, Tier 1, Tier 2) and their
 membership status in the customer loyalty program (e.g., Member,
 Non-Member)?
- Association between Shipping Option and Customer Satisfaction with Delivery: Is there a relationship between the shipping option selected by a customer (e.g., Standard, Express) and their reported satisfaction level with the delivery process (e.g., High, Medium, Low)?
- Association between Marketing Email Segment and Purchase Behavior:
 Is there a relationship between the segment of customers receiving a
 particular marketing email (e.g., High Spenders, New Subscribers,
 Lapsed Customers) and their likelihood to make a purchase after
 receiving the email?