DATA COLLECTION AND DATA EXTRACTION

PRESENTED BY - REMYA R S

Types of Data Sources



Types of Data Sources

Internal Data Sources

Data generated within the organization

External Data Sources

Data generated outside the organization

Types of Internal Data Sources

Company Databases

Centralized repositories for storing structured data to store and manage data from various business operations



Enterprise Systems

Manages company's interactions with customers, to improve customer relationships



Transactional Data

Data generated from business transactions, used for tracking operational efficiency



Types of External Data Sources

Market Research Reports

Helps In-depth analysis, expert insights, trend identification



Social Media

Real-time data to do customer sentiment analysis



Public Datasets

Data collected and made available by government agencies, non-profits, and academic institutions

Sources: Data.gov, World

Bank, Kaggle

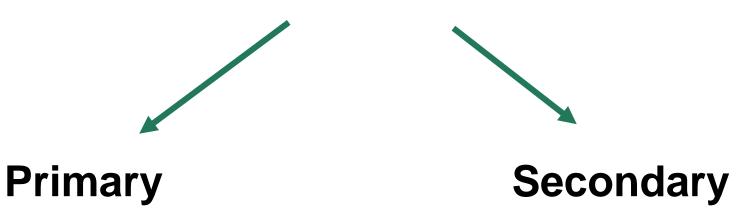






Data Collection Methods

Data Collection Methods



Data Collection Methods

Aspect	Primary Data Collection	Secondary Data Collection
Definition	Gathering new, original data directly from sources for a specific purpose.	Using existing data collected and published by others.
Methods	Surveys, Questionnaires, Interviews, Observations, Experiments	Books, Articles, Government Reports, Online Databases, Company Records
Advantages	Specific to the research needsUp-to-date	Cost-effectiveTime-saving
Disadvantages	Time-consumingCan be costly	Less control over data qualityMay not perfectly fit research needs

Primary Data Collection Methods

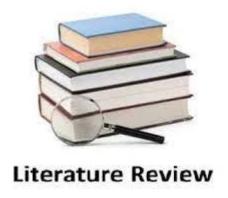








Secondary Data Collection Methods





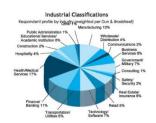


INDUSTRY REPORT

ABOUTTHISSTUDY

Novin Its 27th year. The hodulut he is recognised as the Indining Indust most Insuled source of oldor on budy staffing, and programs. This year, it study was conducted by an available staffing, and programs and members from the Indiaing magazine database were e-malled an invitation to participate in an arrine survey. Or U.S.-based cooperations and education were included in the mortylat. The data represents a cross-section industries and company start in the data represents a cross-section industries and company start.

Small companies (100-999 employees)	
Midsize (1,000-9,999 employees)	_
Large (10,000 or more employees)	_
Total respondents	_



Types of Business Analytics

Aspect	Descriptive Analytics	Inferential Analytics	Predictive Analytics
Definition	Focuses on past data to understand what has happened.	Focuses on making generalizations or inferences about a population based on a sample of data.	Focuses on using historical data to predict future outcomes and trends.
Purpose	To provide insights and understand past behavior.	To draw conclusions and make inferences about a larger group from a smaller sample.	To forecast future events based on historical patterns and data.
Methods/Tools	Statistical measures (mean, median, mode), data visualization (charts, graphs)	Hypothesis testing, confidence intervals, regression analysis	Machine learning algorithms, time series analysis, predictive modeling
Examples	Reporting on last year's sales figures, summarizing customer demographics	Estimating the average income of a population based on a sample, testing the effectiveness of a new drug	Predicting next month's sales, forecasting customer churn

Analyzing Data for a Business

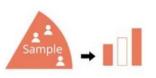




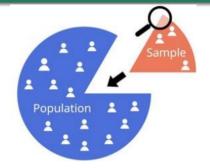
Understanding Problem Statement Data Collection



Data Cleaning



Descriptive Analysis



Inferential Analysis



Data Visualization



Predictive Analysis



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