careerpedia

Task - 5

Download Dataset - Data

Detailed Column Descriptions

Bank client data:

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1 - age (numeric)
2 - job : type of job (categorical:
"admin.","unknown","unemployed","management","housemaid","entrepreneur","student
",
"blue-collar","self-employed","retired","technician","services")
3 - marital : marital status (categorical: "married","divorced","single"; note: "divorced"
means divorced or widowed)
4 - education (categorical: "unknown","secondary","primary","tertiary")
5 - default: has credit in default? (binary: "yes","no")
6 - balance: average yearly balance, in euros (numeric)
7 - housing: has housing loan? (binary: "yes","no")
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- 8 loan: has personal loan? (binary: "yes","no") # related with the last contact of the current campaign:
- 9 contact: contact communication type (categorical: "unknown", "telephone", "cellular")
- 10 day: last contact day of the month (numeric)
- 11 month: last contact month of year (categorical: "jan", "feb", "mar", ..., "nov", "dec")
- 12 duration: last contact duration, in seconds (numeric)

other attributes:

- 13 campaign: number of contacts performed during this campaign and for this client (numeric, includes last contact)
- 14 pdays: number of days that passed by after the client was last contacted from a previous campaign (numeric, -1 means client was not previously contacted)
- 15 previous: number of contacts performed before this campaign and for this client (numeric)
- 16 poutcome: outcome of the previous marketing campaign (categorical: "unknown","other","failure","success")

Output variable (desired target):

17 - y - has the client subscribed a term deposit? (binary: "yes", "no")

Questions

- 1. Age Distribution: What is the age distribution of the bank clients?
- 2. Job Distribution: What are the proportions of clients in different job categories?
- 3. Marital Status Distribution: How is the marital status of clients distributed?
- 4. Education Level Distribution: What are the proportions of clients with different education levels?
- 5. Default Status Distribution: What percentage of clients have credit in default?
- 6. Average Balance by Job: What is the average yearly balance of clients in each job category?
- 7. Housing Loan Status: How many clients have housing loans versus those who do not?
- 8. Personal Loan Status: How many clients have personal loans versus those who do not?
- 9. Contact Method Distribution: What are the proportions of different contact communication types used?

10. Subscription Rate by Previous Outcome: What is the rate of term deposit subscriptions based on the outcome of the previous marketing campaign?

Thank you