

Based on the EDA of the dataset and the marketing objective to optimize resource use in targeting clients most likely to subscribe to term deposits, here are the actionable insights:

### **Actionable Insights for the Marketing Team:**

**1. Age and Subscription Bias:**

Middle-aged clients, particularly those in the 30-50 age range, have shown a higher likelihood of subscribing to term deposits. Therefore, marketing resources should be focused on this age group for higher conversion rates.

**2. Profession Targeting:**

Specific professions such as managers, retired individuals, and technicians have demonstrated a higher tendency to subscribe. Tailoring marketing efforts towards these job roles could lead to more effective resource utilization and higher subscription rates.

**3. Optimizing Contact Frequency:**

The number of contacts made during a campaign shows diminishing returns beyond a certain point. Clients contacted fewer times have similar subscription rates to those contacted more frequently. As such, marketing resources could be optimized by limiting the number of contacts and focusing on quality over quantity.

**4. Leveraging Previous Campaign Success:**

Clients who had successful interactions in previous campaigns are more likely to subscribe in subsequent ones. Focusing efforts on re-engaging these clients could increase subscription rates with minimal additional investment.

**5. Financial Stability Indicator (Balance):**

Clients with higher account balances are more likely to subscribe. Targeting wealthier clients could yield higher subscription rates, making campaigns more effective by focusing on financially stable individuals.

### **Additional Data to Collect:**

1. **Client Interaction History:** Information on past interactions, such as responses to other products or services, engagement with bank activities (e.g., attending webinars, visiting branches), and digital behavior (e.g., website visits), could help fine-tune targeting strategies.
2. **Additional Data Collection:** Collect more detailed demographic data to understand the motivations, preferences, and financial goals of the clients better.
3. **Detailed Financial Data:** Additional financial metrics, such as income level, other investment holdings, or spending patterns, could provide deeper insights into clients' financial readiness and potential interest in long-term investments like term deposits.
4. **Predictive Modeling:** Develop predictive models to anticipate client behavior based on their profiles and interaction histories, allowing for more proactive and personalized engagement.
5. **Client Feedback:** Gathering feedback from clients on why they did or did not subscribe after contact would provide qualitative data to validate assumptions and improve targeting strategies.