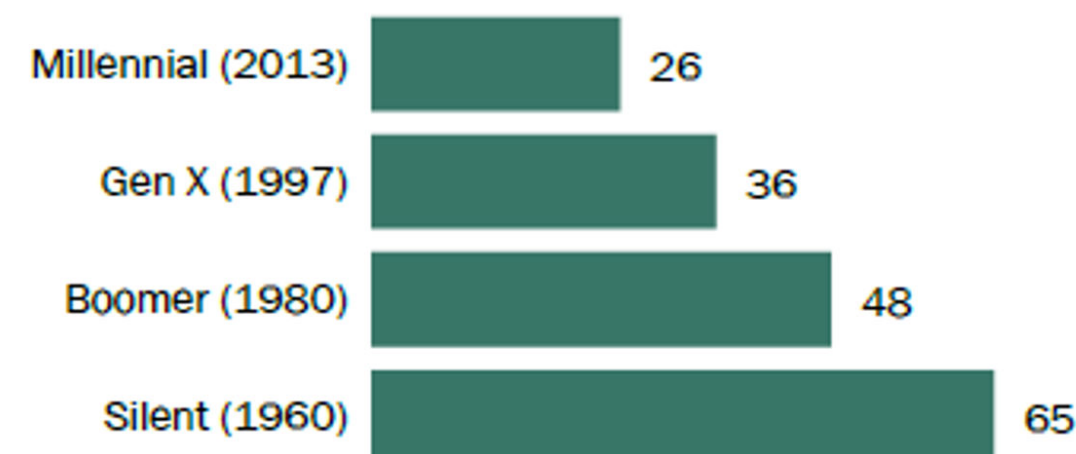


The Decline in Marriage Among the Young

% married at age 18 to 32, by generation



expert system



DePlot

Underling data

Prompt: Summarize this chart.

Input Image and Prompts

Context-Enhanced COT Generate

Image encoder

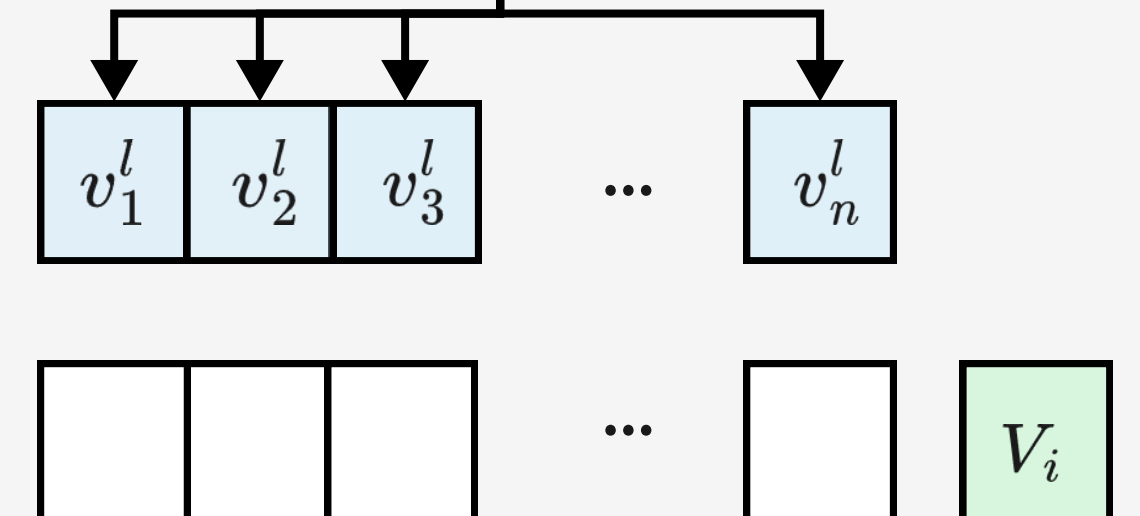
V_i

Text encoder

Image encoder

Context-Enhanced COT Generator

chart library
image-text pair



Similarity Calculation

Thought 1
Identify the chart's type

Retrieve chart-text
pairs for thought 1

select top-k chart-text pair

in-contxt example chart & text

iderics❄️+LoRA🔥

Output1: This is a bar chart.

Thought2: Understand legend and axes.

Output2: It shows the decline in marriage
among the younger generations.

...

Final output

The chart is a bar chart. It shows the decline in marriage among the younger generations of Millennials (including Millennials), Gen X (1997), Boomer (1980), and Silent generations in the United States. In the Millennial generation, only 26% of Millennials were married, while in the Gen X generation, this number increased to 36%. In the Boomer generation, only 48% of Millennials were married, while in the Silent generation, only 65% of Millennials were married. The data suggests that the decline in marriage among the younger generations of Millennials is significantly lower than among the Silent generation.

Repeat n times to
generate n
thoughts