A Stereotype Content Analysis on Color-related Social Bias in Large Vision Language Models

Junhyuk Choi[†], Minju Kim[†], Yeseon Hong and Bugeun Kim

Department of Artificial Intelligence, Chung-Ang University Seoul, Republic of Korea {chlwnsgur129, minjunim, ghddptjs, bgnkim}@cau.ac.kr

Abstract

As large vision language models(LVLMs) rapidly advance, concerns about their potential to learn and generate social biases and stereotypes are increasing. Previous studies on LVLM's stereotypes face two primary limitations: metrics that overlooked the importance of content words, and datasets that overlooked the effect of color. To address these limitations, this study introduces new evaluation metrics based on the Stereotype Content Model (SCM). We also propose BASIC, a benchmark for assessing gender, race, and color stereotypes. Using SCM metrics and BASIC, we conduct a study with eight LVLMs to discover stereotypes. As a result, we found three findings. (1) The SCMbased evaluation is effective in capturing stereotypes. (2) LVLMs exhibit color stereotypes in the output along with gender and race ones. (3) Interaction between model architecture and parameter sizes seems to affect stereotypes. We release BASIC publicly on [anonymized for review].

1 Introduction

As large vision-language models (LVLMs) continue to advance, they are increasingly being utilized in perceiving visual images across diverse domains (Xu et al., 2024; Gu et al., 2024; Wang et al., 2025). However, when employing LVLMs, it is essential to acknowledge that models may be affected by stereotypes, potentially influencing the models' perception. In humans, a stereotype refers to cognitive generalizations about the characteristics of individuals belonging to a specific social group (VandenBos, 2007). So, people often judge others unconsciously based on their visual appearance such as gender, race, and color (Cloutier et al., 2005; Eberhardt et al., 2004; Elliot et al., 2013).

Given that LVLMs are usually trained on humangenerated data, it is likely that they have learned human stereotypes. As a result, LVLMs sometimes exhibit harmful stereotypes, leading to bad consequences (Jiang et al., 2024; Howard et al., 2025; Fraser and Kiritchenko, 2024). Therefore, the need to identify such stereotypes is becoming important. Researchers recently designed various benchmarks to quantify stereotypes in LVLMs (Adewumi et al., 2024; Wang et al., 2024a,b; Sathe et al., 2024; Fraser and Kiritchenko, 2024).

Despite the success of uncovering stereotypes, existing studies have less considered two factors possibly correlated with LVLM's stereotypes: content words and color. First, regarding content words, we suspect that LVLMs may use positive sentiment words when generating stereotypical content. Many previous studies have relied on sentiment analysis to assess the stereotypes (Wang et al., 2024a; Raj et al., 2024; Gerych et al., 2024). While this approach has contributed, sentiment-based evaluation cannot fully mirror how humans evaluate stereotypes. For instance, even positive sentences can reproduce implicit social biases toward particular social groups (Howard et al., 2025; Siy and Cheryan, 2016). Therefore, to evaluate stereotypes more precisely, it is necessary to adopt a sociopsychological framework that captures such implicit biases in text and complements sentiment analysis. So, we adopt Stereotype Content Model (SCM), a stereotype evaluation framework used in human study (Fiske et al., 2018).

Second, regarding color, LVLMs may exhibit stereotypes because of different colors in the image. Previously, researchers in vision-language model reported that model responds inconsistently due to image differences, even when images contain similar scenes (Wu et al., 2025; Kantipudi et al., 2020; Liang et al., 2025). So, studies on stereotypes have employed image pairs to control such differences. Previous attempts successfully built controlled image pairs, however, they overlooked the potential impact of color tone. As humans are influenced by

[†]Equal contribution.

color differences (Elliot and Maier, 2013; Kaya and Epps, 2004; Wexner, 1954), we suspect that color influences stereotypes in LVLMs. To justify such suspicion, we suggest a way to evaluate whether LVLMs affected by different color tones.

Thus, in this paper, we propose two metrics inspired by SCM and a new Benchmark for assessing stereotypes with Image Colors, BASIC. Additionally, we attempt to examine which part of LVLMs affect stereotypes, by comparing different model architectures. We believe that a systematic comparison between model architectures can hint at components relevant to stereotypes. As a result, this paper has the following contributions:

- 1. Two SCM-based metrics: Based on social psychology, we propose automatic metrics that can complement sentiment metrics.
- BASIC benchmark: We suggest a benchmark that can separate the effect of colors from other stereotypes.
- Systematic analysis: By comparing eight LVLMs, we found the effect of model architecture and size on stereotype is limited.

2 Related Work

This section reviews existing research in terms of (1) used metrics, (2) designed benchmarks, and (3) tested LVLMs for analyzing stereotypes. The following paragraphs elaborate each of these points.

First, regarding content words, prior studies have mainly assessed model responses based on sentiment polarity (Inoshita and Zhou, 2024; Hu et al., 2025; Gerych et al., 2024), which limits their ability to capture the subtle meanings embedded in text. In the case of LVLMs, responses often exhibit positive sentiments because they were reinforced by human feedback (Li et al., 2024), making it difficult to detect stereotypes solely through sentiment-based metrics. Therefore, more sophisticated measures that directly target stereotypes are needed. In response to this limitation, recent work has begun incorporating social-psychological evaluation frameworks to analyze stereotypes. For instance, (Howard et al., 2025) was influenced by the Stereotype Content Model (SCM). The study used the dictionary from (Nicolas et al., 2021) to measure the frequency of SCM-related words in image captions. However, this approach is limited by its reliance on word frequency, without accounting for contextual or derived meanings.



Figure 1: Examples from our BASIC dataset. Top row shows chess players with different colors (white, blue, red), retaining race and gender. Bottom row shows DJs with different race or gender, retaining white color.

Second, regarding benchmarks, prior studies have emphasized the importance of constructing paired images to assess stereotypes of LVLMs. Traditional studies constructed diverse images based on common themes such as gender or race, and compared average evaluation scores across these thematic sets (Mandal et al., 2023; Janghorbani and De Melo, 2023; Qiu et al., 2023). However, such methods often suffer from insufficient control over confounding variables unrelated to the targeted stereotype. For example, if gender, race, and background all change simultaneously, any observed bias cannot be attributed purely to gender when aiming to examine gender-related stereotypes. To address this limitation, recent works have proposed that changing a targeted attribute while keeping the rest of the image nearly identical (Kim et al., 2025; Howard et al., 2025, 2024; Fraser and Kiritchenko, 2024). While these studies devote considerable effort to image construction, unintended color differences still appear in the generated images. Considering the visual differences can influence the model's internal representations (De and Pedersen, 2021; Kantipudi et al., 2020; Liang et al., 2025), thereby potentially affecting the manifestation of stereotypes. Thus, color differences should be considered in stereotype evaluation frameworks to provide a more accurate evaluation.

Lastly, regarding model architecture, researchers recently investigated whether the model architecture affects stereotypes. Though previous studies have identified stereotypes within a limited set of models (Raj et al., 2024; Sathe et al., 2024), they did not clearly mention which architectural choice cause stereotypes. So, recently, researchers have

begun to identify causal relationships (Wu et al., 2024; Wang et al., 2024a). Despite their success, it is yet questionable whether their findings could be generalized to large-sized LVLMs with more than 50 billion parameters. So, we need to consider a broader range of models during the model selection, in terms of parameter size.

3 BASIC Benchmark

In this study, we aim to separately examine the effect of color tone in the analysis of stereotypes produced by LVLMs. There are various visual components in person images that can influence stereotype formation: gender, race, background, and color. Since these elements appear together in a single image, it is essential to separate the impact of each factor on the model's responses. To examine the potential impact of such differences, we construct a paired image dataset that considers not only gender and race but also color, as shown in Figure 1.

We created the dataset using three primary colors: white, red, and blue. While a broader range of colors could have been included, we selected these particular ones based on cognitive factors related to human perception. Specifically, prior research has shown that humans tend to associate red, blue, and white with particular emotions, cognitive judgments, or stereotypes (Elliot and Maier, 2013; Kaya and Epps, 2004; Wexner, 1954). Therefore, we adapted the procedure proposed by (Howard et al., 2024) to construct a dataset with controlled color tones and designed a six-step process¹.

For the experimental analysis of model stereotypes, gender and race categorizations were adopted from previous studies (Karkkainen and Joo, 2021; Howard et al., 2024). Specifically, gender was determined based on biological sex, while race was classified into six predefined groups: African-American, Asian, Caucasian, Indian, Latino, and Middle Eastern. We acknowledge that there is a broader spectrum of gender and race beyond those considered in this study. This selection was made solely for experimental purposes and is not intended to exclude any group.

Step 1: Constructing Occupation List. To create paired images, we started by choosing a common occupation for the individuals depicted in each image. Following the approach of Howard et al.

(2024), we collected a list of occupations from studies (Nadeem et al., 2021; Chuang et al., 2023; Naik and Nushi, 2023). After removing duplicates, we obtained a list of 181 occupations. All subsequent steps are performed for each of 181 occupations.

Step 2: Creating action. We considered various actions that could be associated with each occupation. Since a single image cannot cover all possible actions of a specific occupation, multiple images describing different actions are required for each occupation. To achieve this, we adapted a prompt from (Sathe et al., 2024) and used GPT-4 to generate five distinct scenarios for each occupation.

Step 3: Generating Seed Images. For each of the five actions associated with a given occupation, we generated a seed image as a baseline for transformation. To ensure stability in subsequent image manipulation steps, the seed image was generated using an Asian male wearing white clothing on a gray background. This step was performed using the Stable Diffusion XL Text-to-Image model, which generated high-resolution images (1024 × 1024 pixels) based on the scenario corresponding to each occupation (Podell et al., 2023). We employed negative prompts (Ban et al., 2024) to enhance image quality and ensure alignment with the intended depiction. A negative prompt is an input method that specifies unwanted attributes, guiding the model to avoid including them in the generated images. Specifically, we included terms such as "low resolution", "bad anatomy", and "any color except white" in the negative prompts.

Step 4: Controlling Gender and Race. Based on a seed image, we generate paired images that reflect various combinations of gender and race. In this stage, we utilize the Image-to-Image model of Stable Diffusion XL to modify the seed image according to the specified race and gender attributes. We retain the contextual information conveyed by the scenario while altering only the race and gender of the original image. To ensure that the pose, position, and background remain consistent with the seed image, we adopt negative prompts such as "different pose, position, and background."

Step 5: Controlling Color. Based on the images generated in Step 4, we further modify the color tone of each image to either blue or red, while maintaining the same race and gender conditions. To ensure that the intended color is clearly reflected in the output, we use negative prompts. For example,

¹The generation code is available at the GitHub URL. Detailed prompts and parameter settings for each step are provided in the Appendix A

	Red	Green	Blue
Red vs. White	0.12	-3.06	-2.43
Blue vs. White	-5.37	-4.87	-0.52

Table 1: RGB value changes (%) in red/blue images compared to white seed image

when generating blue-toned images, we explicitly add phrases such as "white clothes, red clothes, any color except blue" to the negative prompts used in Step 4. Through this step, we obtain a total of 180 images per scenario (= $5 \times 2 \times 6 \times 3$).

Step 6: Filtering. To ensure the quality of the final dataset, we conducted a filtering process based on three criteria. First, we evaluated the semantic similarity between the 32,580 generated images and their corresponding text prompts. We normalized the embeddings of both image and text using CLIP, then computed the cosine similarity between them. Only images with a similarity score of 0.2 or higher were retained in the dataset. Second, we included only those images that passed the NSFW filtering, thereby excluding any potentially unsafe content that may have been generated. Lastly, we retained only occupations for which all 180 image variations passed both filtering conditions. If any single image was filtered out, the entire occupation was excluded from the analysis to maintain consistency in the number of actions and attributes across occupations for comparative analysis.

Through the above procedures, we generated a total of 18,360 images across 102 occupations. After completing all image generations, we assessed whether the color tones were clearly distinguishable by calculating the RGB scale differences between the red or blue images and their corresponding white counterparts. As shown in Table 1, the constructed dataset actively suppresses non-target colors to emphasize the intended color tone.

4 Experimental Setup

Using the dataset, we experiment whether LVLMs reveal different stereotypes across different gender, race, and colors. In this section, we illustrate our experimental design to evaluate stereotypes based on Stereotypical Content Model (SCM) of social psychology. We first illustrate how we collected descriptions from LVLMs for each image (Section 4.1). Next, we explain the existing sentiment-based metric and our two proposed SCM-based metrics

(Section 4.2). Then, we explain how we conducted analyses to figure out the stereotypes on gender, race, and colors, from the data (Section 4.3). Lastly, we elaborate LVLMs compared (Section 4.4).

4.1 Collecting Description

As we want to compare descriptions between different images to discover stereotypes, we input an image and a prompt to LVLMs. For each image, we start a session by feeding the image to an LVLM. Then, we ask the LVLM to generate descriptions about the image, using an open-ended question. Specifically, we used following question: "Describe this person objectively." Using the description paragraph generated by the LVLM, we extract metrics for statistical analysis and conduct a simple qualitative analysis.

We selected the above question prompt because of two reasons. First, the prompt does not imply any specific situation or assumption. As LVLMs may produce different calculation result when we provide different situation prompt, implying any situation could lead to a specific stereotype. So, to focus solely on the effect of input images, we selected not to impose any situation within the prompt. Second, the prompt does not provide any specific choices. We thought that providing choices can also impose a new code of conduct: generated answer should be one of the choices.

4.2 Metrics

4.2.1 Existing sentiment-based metric

Following previous work (Wang et al., 2024a; Inoshita and Zhou, 2024; Hu et al., 2025), we used VADER (Hutto and Gilbert, 2014) to assess the sentiment of a description. Among the various sentiment-based metrics, researchers usually adopt VADER because the model is trained on the corpus from social media, which might contain stereotypical content. To obtain a score, we input a description of an image into VADER. After VADER's computation procedure finished, we used the output of VADER as the sentiment score of the description.

4.2.2 Our proposed SCM-based metrics

As sentiment-based metrics may not sufficiently consider content words, we propose two new metrics following SCM: *competence* and *warmth*. Before explaining metrics, we first elaborate how we operationally defined these two dimensions in our context, following (Fiske et al., 2018). The competence dimension measures how capable the de-

scriber evaluates the ability of the person in the image to achieve own goal². And, the warmth dimension measures how positively or negatively a describer evaluates the intention of the person³.

To quantize two main axes of stereotype, warmth and competence, we propose a projection-based method; we project word embeddings into a vector space spanned by warmth and competence, inspired by studies about stereotypes in LLMs (Fraser et al., 2021; Omrani et al., 2023; Kim and Johnson, 2025). As SCM utilizes human intuition to evaluate a description, we chose to model such intuition using word embeddings. Mathematically, we assumed that a sentence embedding \mathbf{x} is a linear combination of independent basis vectors: warmth \mathbf{u}_w , competence \mathbf{u}_c , and other basis vectors \mathbf{v}_i s which are orthogonal to \mathbf{u}_w and \mathbf{u}_c . In other words, for any sentence embedding \mathbf{x} , there exist corresponding real numbers $\alpha_w(x)$, $\alpha_c(x)$ and $\beta_i(x)$ such that

$$\mathbf{x} = \alpha_w \mathbf{u}_w(x) + \alpha_c \mathbf{u}_c(x) + \sum_i \beta_i(x) \mathbf{v}_i. \quad (1)$$

So, we can compute orthogonal projection of ${\bf x}$ onto warmth-competence plane with two numbers $\alpha_w(x)$ and $\alpha_c(x)$, the projected coordinate on the plane. These numbers show how much warmth and competence should be combined together to have a similar meaning of the given sentence x. So, we interpret them as scores quantifying warmth and competence in SCM.

To implement the above idea, we need basis vectors. We normalized the average embedding of corresponding representative words. As a embedding model, we used Sentence-Transformer (Reimers and Gurevych, 2019). Let W and C be sets of words representing warmth and competence, respectively. We compute \mathbf{u} vectors by computing average embedding $\bar{\mathbf{w}}$ and $\bar{\mathbf{c}}$:

$$\bar{\mathbf{w}} = \frac{1}{|W|} \sum_{x \in W} ST(x), \quad \mathbf{u}_w = \frac{1}{\|\bar{\mathbf{w}}\|_2} \bar{\mathbf{w}},$$
 (2)

$$\bar{\mathbf{c}} = \frac{1}{|C|} \sum_{x \in C} \mathrm{ST}(x), \quad \mathbf{u}_c = \frac{1}{\|\bar{\mathbf{c}}\|_2} \bar{\mathbf{c}}, \quad (3)$$

where $ST(\cdot)$ is the Sentence-Transformer.

Using these two unit vectors, we compute warmth α_w and competence α_c of a sentence x as a

projection. We first calculate dot products between $\mathbf{x} := \mathrm{ST}(x)$ and basis vectors.

$$d = \mathbf{u}_w^{\top} \mathbf{u}_c, \quad d_w(x) = \mathbf{x}^{\top} \mathbf{u}_w, \quad d_c(x) = \mathbf{x}^{\top} \mathbf{u}_c.$$
 (4)

Using these dot products and Equation 1, we obtain the projection coordinates as follows:

$$\alpha_w(x) = \frac{d_w(x) - d \cdot d_c(x)}{1 - d^2}, \qquad (5)$$

$$\alpha_c(x) = \frac{d_c(x) - d \cdot d_w(x)}{1 - d^2}.$$
 (6)

4.3 Analyses

We use two analysis methods to examine stereotypes in LVLMs: statistical test and pointwise mutual information (PMI). First, for statistical tests, we conducted paired t-test. To separately assess the effect of one stereotype from others, we construct paired data based on the target stereotype. For example, let us assume that we want to evaluate gender stereotype of an LVLM. Then, from the BASIC benchmark, we construct pairs of images whose gender is different and whose other aspects (race, color, scene, and occupation) are the same. As we already computed three metrics for each image (or its description), we conducted a paired t-test by comparing the metric values between male and female images. For race and colors, we conducted paired t-test in a pairwise way; for example, we tested for each pair of two different colors.

Second, for PMI, we computed PMI between each aspect and words. We used PMI to identify words which are highly relevant to both the aspect and SCM dimensions. First, to identify words relevant to SCM dimensions, we filtered words based on the cosine similarity. We computed cosine similarity between $\mathbf{w} := \mathrm{ST}(w)$ and basis vectors and discarded words whose similarity is in between -0.5 and 0.5⁴. Then, we compute PMI of a word w and an aspect a (e.g., red tone) as follows:

$$PMI(w; a) = \log_2 \frac{P(w|a)}{P(w)},\tag{7}$$

where P(w|a) indicates the frequency of word w in descriptions of image with aspect a, and P(w) means the frequency of word w in the entire set. For each aspect, we selected 20 words whose PMI scores are highest. By collecting common words across models, we can identify stereotypes appeared in majority of models.

²Fiske et al. (2018) mentioned following six words indicate high competence: *competent*, *confident*, *capable*, *efficient*, *intelligent*, *skillful*

³Also, they mentioned following seven words indicate high warmth: *friendly*, *well-intentioned*, *trustworthy*, *warm*, *good-natured*, *sincere*

 $^{^4 \}rm We$ used $0.5 \simeq \cos(60^\circ)$ to exclude words whose direction is near orthogonal to w.

	Llama 3.2	Instruct BLIP	Pixtral	Qwen 2.5
Backbone LMs	Llama 3	Vicuna (Llama 2)	Mistral	Qwen
Image-text Combination	Cross Attention	Input	Input	Input
Parameter Sizes	11B 90B	7B 13B	12B Large (124B)	7B 72B

Table 2: Model architectures used in the experiment

4.4 Tested models

To conduct a systematic analysis between models, we selected eight LVLMs according to following three criteria. First, we used open-sourced models whose architecture is known and already tuned on visual instructions. Second, we selected LVLMs which provides at least two different parameter sizes. Third, we used models which can be grouped with other models, according to image input method or backbone language models (LMs). As a result, we selected the following eight models, as shown in Table 2. Note that Llama 3.2 and InstructBLIP uses backbone LMs from same lineage, Llama. Unlike Llama 3.2, which integrates visual and textual modalities via cross-attention layers within the LLM itself, the other three architectures introduce visual features at an earlier stage. After processing the outputs of the image encoder through modules such as Q-Former, adapters, or projectors, they feed them directly into the language model input sequence. Additionally, small models have similar parameter sizes, such as 7B or 12B. Implementation details (e.g., temperature settings) are described in the Appendix B.

5 Results

To analyze whether three image attributes cause different stereotype levels, we conducted paired t-tests using three evaluation metrics. Table 3 shows the results of statistical tests, regarding color and gender attributes. Due to the page limit, here we only present two of three attributes; we present the pairwise comparison between different race attributes in Appendix C. Likewise, here we describe some common words discovered from PMI analyses, and the detailed result of PMI analyses is illustrated in Appendix D. The following paragraphs describe the results regarding each metric.

VADER: Regarding color, the differences in sentiment scores were not consistent between models, though models sometimes exhibit biases in some cases (Rows 1-3). For example, only three models exhibit differences between red and white images (Row 3). In contrast, regarding gender, male images scored lower sentiment than female images (Row 4; p < 0.05 for all).

Gathering test results revealed that the frequency of stereotypes was lower compared to SCM-based metrics (Row 5). Specifically, Pixtral-12B demonstrated the highest frequency of stereotype, whereas Llama-11B exhibited the lowest. And we observed that an increase in model parameter size led to a slight increase in significant stereotypical outputs in the Llama (6 to 8 stereotypes) and Qwen (8 to 9) families, whereas the opposite trend was observed in InstructBLIP (11 to 8) and Pixtral (14 to 13).

Competence of SCM: We observed higher frequency in stereotypes in competence compared to VADER. Also, the result is somewhat independent from VADER, as the correlation between them was near zero ($r=0.014,\ p<0.001$). Specifically, stereotype levels were found to differ significantly across attributes of color, gender, and race. For example, regarding color, blue images showed lower competence than red (Row 1; p<0.001 for all models) and white (Row 2; p<0.001 except for InstructBLIP-7B). PMI result revealed similar phenomenon; red and white were associated with high competence words, such as BRIGHT, STRONG, COMPETITIVE (for red), CLEAN, TECHNOLOGICAL, and EXPERTISE (white).

Regarding gender, male images showed lower competence than female images (Row 4; p < 0.001 except for Qwen-7B). PMI result supports this observation; male images were associated with DISTINGUISHED, RESPONSIBILITY, INTELLECTUAL, whereas female images were more linked to GRACEFUL, ELEGANT, BEAUTY.

Collecting all test results, the frequency of stereotypes differs across models (Row 5). Pixtral-12B demonstrated the highest frequency of stereotype, whereas Qwen-7B exhibited the lowest. Also, we observed that an increase in model parameter size led to an increase in significant stereotypical outputs in the Llama (12 to 13 stereotypes) and Qwen (7 to 15), whereas the opposite trend was observed in InstructBLIP (13 to 12) and Pixtral (18 to 15).

Warmth of SCM: We also observed higher frequency in stereotypes in warmth compared to

Blue vs. Red	Llama 11B	90B	Instruc 7B	13B	Pix		Qwe	11 4.3
	0.21			130	12B	Large	7B	72B
	0.21	1.96	7.19***	0.47	1.22	2.05*	3.03**	3.89***
Blue vs. White	-1.40	0.10	6.45***	-1.11	3.38***	2.73^{**}	0.70	-2.19*
Red vs. White	-1.61	-1.86	-0.89	-1.59	2.18^{*}	0.65	-2.31*	-6.07***
Male vs. Female	-6.41***	-3.66***	-8.63***	-8.29***	-15.26***	-7.89***	-2.35*	-3.30***
cant stereotypes	6/19	8/19	11/19	8/19	14/19	13/19	8/19	9/19
Blue vs. Red	-11.18***	-9.08***	-3.67***	-7.95***	-15.10***	-10.39***	-10.96***	-12.87***
Blue vs. White	-11.08***	-9.43***	0.67	-6.39***	-21.36***	-14.52***	-11.33***	-16.16***
Red vs. White	0.03	-0.21	4.45***	1.62	-5.66 ^{***}	-3.78***	-0.40	-3.15**
Male vs. Female	-35.93***	-20.55***	-35.85***	-20.43***	-39.33***	-28.01***	-1.18	-4.51***
cant stereotypes	12/19	13/19	13/19	12/19	18/19	15/19	7/19	15/19
Blue vs. Red	9.85***	11.96***	4.13***	9.80***	13.83***	8.80***	8.31***	8.40***
Blue vs. White	4.87***	9.71***	-2.36*	5.96***	0.47	0.24	-0.02	-5.85***
Red vs. White	-4.96***		-6.62***		-14.18***	-8.77***	-8.34***	-14.29***
Male vs. Female	28.65***	23.72***	27.08***	35.62***	17.79***	12.09***	-6.05***	0.71
cant stereotypes	10/19	16/19	15/19	12/19	15/19	14/19	10/19	14/19
2 / 2 3 3 C / 2 3 3 C /	ed vs. White fale vs. Female ant stereotypes lue vs. Red lue vs. White ed vs. White fale vs. Female ant stereotypes lue vs. Red lue vs. Red lue vs. White ed vs. White fale vs. White fale vs. Female	ed vs. White -1.61 -6.41*** -6.41*** -6.41***	del vs. White -1.61 -1.86 -6.41*** -3.66***	ed vs. White -1.61 -1.86 -0.89 fale vs. Female -6.41**** -3.66**** -8.63**** ant stereotypes 6/19 8/19 11/19 lue vs. Red -11.18**** -9.08**** -3.67*** lue vs. White -11.08**** -9.43**** 0.67 ed vs. White 0.03 -0.21 4.45**** fale vs. Female -35.93**** -20.55**** -35.85**** ant stereotypes 12/19 13/19 13/19 lue vs. Red 9.85**** 11.96**** 4.13**** ed vs. White 4.87**** 9.71**** -2.36* ed vs. White -4.96**** -2.67** -6.62*** fale vs. Female 28.65**** 23.72**** 27.08***	ed vs. White -1.61 -1.86 -0.89 -1.59 fale vs. Female -6.41*** -3.66*** -8.63*** -8.29*** ant stereotypes 6/19 8/19 11/19 8/19 lue vs. Red -11.18*** -9.08*** -3.67*** -7.95*** lue vs. White -11.08*** -9.43*** 0.67 -6.39*** ed vs. White 0.03 -0.21 4.45*** 1.62 fale vs. Female -35.93*** -20.55*** -35.85*** -20.43*** ant stereotypes 12/19 13/19 13/19 12/19 lue vs. Red 9.85*** 11.96*** 4.13*** 9.80*** lue vs. White 4.87*** 9.71*** -2.36* 5.96*** ed vs. White -4.96*** -2.67** -6.62*** -4.02*** fale vs. Female 28.65*** 23.72*** 27.08*** 35.62***	ed vs. White fale vs. Female -1.61	ed vs. White fale vs. Female -1.61	ed vs. White falle vs. Female -1.61 -1.86 -0.89 -1.59 -1.526*** -7.89*** -2.31* -2.35* ant stereotypes 6/19 8/19 11/19 8/19 14/19 13/19 8/19 lue vs. Red -11.18*** -9.08*** -3.67*** -7.95*** -15.10*** -10.39*** -10.96*** -10.96*** -10.96*** -10.96*** -10.96*** -10.96*** -10.96*** -10.96*** -10.96*** -10.96*** -10.96*** -10.96*** -10.96*** -10.96*** -10.96*** -10.96*** -10.96*** -10.96*** -10.96*** -10.96*** -10.96*** -10.96*** -10.96*** -10.96*** -10.96*** -10.96*** -10.96*** -10.96*** -10.96*** -10.96*** -10.96*** -10.96*** -10.96*** -10.96*** -10.96*** -10.96*** -10.96*** -10.96*** -10.96*** -10.96*** -10.96*** -10.96*** -10.96*** -10.96*** -10.96*** -10.96*** -10.96*** -10.96*** -10.96*** -10.96*** -10.96*** -10.96*** -10.96*** -10.96*** -10.96*** -10.96*** -10.96*** -10.96*** -10.96*** -10.96*** -10.96*** -10.96*** -10.96*** -10.96*** -10.96*** -10.96*** -10.96*** -10.96*** -10.96*** -10.96*** -10.96*** -10.96*** -10.96*** -10.96*** -10.96*** -10.96*** -10.96*** -10.96*** -10.96*** -10.96*** -10.96*** -10.96*** -10.96*** -10.96*** -10.96*** -10.96*** -10.96*** -10.96*** -10.96*** -10.96*** -10.96*** -10.96*** -10.96*** -10.96*** -10.96*** -10.96*** -10.96*** -10.96*** -10.96*** -10.96*** -10.96*** -10.96*** -10.96*** -10.96*** -10.96*** -10.96*** -10.96*** -10.96*** -10.96*** -10.96*** -10.96*** -10.96*** -10.96*** -10.96*** -10.96*** -10.96*** -10.96*** -10.96*** -10.96*** -10.96*** -10.96*** -10.96*** -10.96*** -10.96*** -10.96*** -10.96*** -10.96*** -10.96*** -10.96*** -10.96*** -10.96*** -10.96*** -10.96*** -10.96*** -10.96*** -10.96*** -10.96*** -10.96*** -10.96*** -10.96*** -10.96*** -10.96*** -10.96*** -10.96*** -10.96*** -10.96*** -10.96*** -10.96*** -10.96***

p < 0.05, p < 0.01, p < 0.01

Table 3: Paired t-test results for color and gender stereotypes. Each cell denotes a *t*-statistic whether image pairs with the specified difference showed different measurements. '# of significant stereotypes' row shows the number of statistically significant results on 19 stereotype tests, including race. All results including race is in Appendix C.

VADER. Again, the result is somewhat independent from VADER with a very weak correlation ($r=0.189,\,p<0.001$). Similar to competence, we found significant stereotypes in the result. Regarding color, red images showed lower warmth than blue (Row 1; p<0.001) and white (Row 3; p<0.05). PMI supports this; blue and white were linked to ENJOYING, RESPECT, WELCOMING (for blue), SMOOTH, PLAIN, and NEUTRAL (white).

Regarding gender, male images revealed higher warmth than female images (Row 4; p < 0.001 except for Qwen-72B). PMI also supports this; male images were associated with LIVELY, WELCOMING, GOOD, whereas female images were more linked to CONFIDENT, STRONG, BEAUTY.

Comparing models using the frequency of stereotypes, models showed different trends (Row 5); Llama-90B was the highest, whereas Llama-11B and Qwen-7B was the lowest. An increase in model parameter size led to more significant stereotypical outputs in the Llama (10 to 16 stereotypes) and Qwen (10 to 14) families, whereas the opposite trend was observed in InstructBLIP (15 to 12 stereotypes) and Pixtral (15 to 14).

6 Discussion

6.1 Effectiveness of SCM metrics

Our result suggests that using both SCM-based metrics and sentiment metrics provides more com-

prehensive view on stereotypes. The result showed that VADER is independent from SCM-based metrics and measures different aspects of stereotypes. VADER analyzes the emotional content of a sentence at a surface level by examining its positive or negative polarity, thus simplifying stereotypes to matters of sentiment. However, SCM interprets stereotypes as differences in perceived competence or warmth about the subject in the sentence. So, as we observed in correlation analysis, a sentence with positive polarity does not necessarily imply high competence or warmth.

Moreover, we suspect that safeguard mechanisms in LVLMs can distort or mask the model's internal stereotypes. These models are often explicitly trained to avoid harmful contents or a negative tone on possibly stereotypical topics, thereby influencing sentiment scores regardless of underlying bias. So, sentiment polarity-based metrics, such as VADER, may not sufficiently capture bias. In contrast, SCM focuses on the semantic dimensions of warmth and competence, offering a more robust alternative that is less affected by such safeguards.

6.2 Existence of Color Stereotypes

Color plays a significant role in shaping stereotypes, as it demonstrates clear patterns in the dimensions of warmth and competence. We believe that these stereotypes develop because the model internalizes sociocultural associations present in image-text data during its pretraining phase. The following paragraphs provide evidence and reasoning that support this claim.

Regarding competence, we suspect that a stereotypical association between color tones and the capability of the subject may affect the score. For instance, red color may symbolize warning or aggression but can also be interpreted as a sign of passion or determination (Elliot and Maier, 2013; Gnambs et al., 2015). PMI result also supports this interpretation; words like COMPETITIVE have high mutual information with red-toned images. Similarly, white-toned images were also linked with EXPERTISE or TECHNOLOGICAL, mirroring stereotypes that professional, highly-competent occupations wear white-colored uniforms (Crutzen and Adam, 2022; Adam and Galinsky, 2012). Because such stereotypes were already integrated in human-labeled caption dataset, red and white showed higher competence than blue in the result.

Regarding warmth, we suspect that frequent pairing of certain color tones with trustworthy may have increased warmth scores. For example, blue may symbolize calmness and stability (Kaya and Epps, 2004; Wexner, 1954). Similarly, white may convey a sense of softness and purity (Na and Suk, 2014; Kaya and Epps, 2004). Such a calm or soft impression lets people regard the subject's intention as less harmful, increasing warmth. PMI result also supports this interpretation; words like WEL-COMING have high mutual information with bluetoned images. Likewise, white-toned images show high mutual information with words like SMOOTH. Thus, higher warmth scores for blue and white images imply that LVLMs learned such human stereotypes about the subject's intention.

6.3 Differences between Models

Our results also indicate that model architecture may not be the primary factor influencing the strength or weakening of stereotypes. While there are model-specific differences that affect stereotypes, similar architectures do not necessarily lead to similar outcomes. For instance, Llama and InstructBLIP demonstrated opposite trends, despite both using the same underlying LLM architecture (Llama and Vicuna, mentioned in Grattafiori et al. (2024); Chiang et al. (2023)). Similarly, Pixtral and Qwen also exhibited opposite trends, even though both encode visual inputs using Vision Transformer-based modules and feed the projected hidden states into the LLM decoder as image to-

kens (Agrawal et al., 2024; Bai et al., 2025). So, the effect of architecture seems relatively small. We suspect that other model-specific factors could be confounding factors, which generate interaction effects with architecture.

Likewise, the increase in model parameters does not have an independent effect on stereotype expression; instead, it interacts with the model's structural characteristics, such as backbone LLM. Regarding Llama and Qwen, the number of significant stereotypes increased when we used more parameters. In contrast, regarding InstructBLIP and Pixtral, the number decreased when we adopted more parameters. Also, when we compare different architectures with similar sizes (e.g., 10B models), no model exhibited dominant stereotypes compared to others in all metrics. So we conclude the effect of parameter sizes and architecture are not easily distinguishable from each other.

7 Conclusion

In this paper, we introduced a comprehensive evaluation framework that adopts Stereotype Contents Model (SCM) and moves beyond sentiment-based assessments of stereotypes. We also presented BASIC, a novel benchmark designed to isolate and evaluate the role of image color tones in the formation of stereotypes by Large Vision-Language Models (LVLMs).

Our empirical analysis across eight diverse LVLMs revealed that color, alongside gender and race, significantly influences model outputs in terms of perceived competence and warmth. We demonstrated that SCM-based metrics provide a more nuanced and robust lens through which to capture stereotypical associations, compared to conventional sentiment measures that safeguard mechanisms may distort. Furthermore, our cross-model comparisons suggest that neither architectural similarity nor parameter scale alone accounts for the presence of stereotypes. Instead, we observed complex interactions between model-specific factors which collectively shape the stereotypes.

These findings underscore two points: (1) the adoption of semantically informed evaluation methods when auditing stereotypes in LVLMs and (2) the need for more careful consideration of visual attributes such as color. We hope BASIC and SCM metrics will serve as a useful tool for future studies seeking to address the nuanced dynamics of stereotype formation in multimodal AI systems.

Limitations

While our study presents SCM-based evaluation metrics and introduces BASIC, a benchmark developed to assess stereotypes in LVLMs, three limitations yet remain. First, our findings may not be fully independent from other visual attributes. In our study, we focused on three specific colors to investigate stereotypes in LVLMs. Though those colors are selected based on studies about human perception and we found such stereotype is present in LVLMs, we believe that other color tones (e.g., yellow or green) may show different patterns of stereotypes. Similarly, other visual elements may affect our experiment; facial expression, brightness, or posture may still have a potential influence on the model outputs. As these visual elements can generate interaction effect with color stereotypes, we need further studies on investigating these visual elements to understand stereotypes in LVLM.

Second, our findings just provided a hint at how architectural differences affect LVLM stereotypes. Though we designed a systematic comparison between eight LVLMs in terms of parameter size and model architecture, our result only provides correlation between them. To identify causal relationship or possible cause of stereotypes from model-specific architectures, we need to further control other factors such as training data and safeguards. Controlling such factors usually requires pre-training from the scratch, which requires a lot of time and machine resources. Thus, we reported correlation without conducting an experiment for identifying causality. However, as causal relationship should be discovered to reduce stereotypes in LVLMs, we call further research on identifying such possible causes from model architecture.

Third, we conducted our experiment only in English. So, our experimental result is based on English culture. As Language-specific or culturally nuanced biases exist, LVLMs may provide different responses when we use different languages. This implies that the result might vary across different languages or culture. Thus, conducting similar experiment with different languages may provide different insights.

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A Generation procedure of BASIC

Figure 2 shows the entire pipeline for generating BASIC benchmark. In this appendix, we provide detailed prompts and generation settings for each step.

A.1 Step 1: Constructing Occupation List

Table 4 lists all 102 occupations used in our image generation experiments. These professions were selected to cover a diverse range of domains including medicine, engineering, arts, public service, and manual labor, enabling robust analysis across various social roles.

A.2 Step 2: Creating action

We used the following prompts for generating actions for each occupation.

System prompt:

You are an NLP assistant whose purpose is to generate prompts in a specific format.

User prompt:

Generate 20 prompts in the given format for the given occupation: {TARGET_OCCUPATION} Each prompt should be in the format "A <occupation> doing <action>" with no more than 20 words per prompt. Each prompt has a different, gender-neutral, simple-to-sketch <action> that is relevant to the given occupation. Choose actions that make it easy to guess occupation of <subject> ONLY from <action>. Output one

prompt on each line. Do NOT print ANY additional information.

A.3 Step 3: Generating Seed Images

For each pair of occupation and prompt, we first create a single seed portrait of an Asian man wearing pure-white attire. Generation is performed with the Stable Diffusion XL text-to-image pipeline (stabilityai/stable-diffusion-xl-base-1.0, fp16) on one of two NVIDIA A6000 GPUs, using 50 inference steps, a guidance scale of 9.0, and a resolution of 1024 × 1024.

We designed the prompts to control for three key attributes: **occupation**, **clothing color**, and **demographic traits** (race and gender). The template prompt for generating seed image is as follows:

Asian man, {occupation prompt}, wearing pure white clothes, gray background, professional photography, high detail, high quality

For example, a prompt for doctor is as follows:

Asian man, a confident and professional doctor standing in a hospital corridor, wearing pure white clothes, completely white outfit, gray background, professional photography, high detail, high quality

To reduce visual noise and confounds, we applied a consistent negative prompt for all generations to avoid low quality or undesired attributes:

poor quality, low resolution, bad anatomy, worst quality, disfigured, different pose, different background, colored clothes, any color except white

A.4 Step 4: Controlling Gender and Race

After creating the seed image, the seed image is then passed to the Stable Diffusion XL Image-to-Image pipeline (stabilityai/stable-diffusion-xl-base-1.0) with strength parameter of 0.7. To generate the remaining 11 race-gender combinations in the Cartesian product {Asian, Black, Indian, Latino, Middle Eastern, White} × {man, woman}, we applied the pipeline for 11 times, except

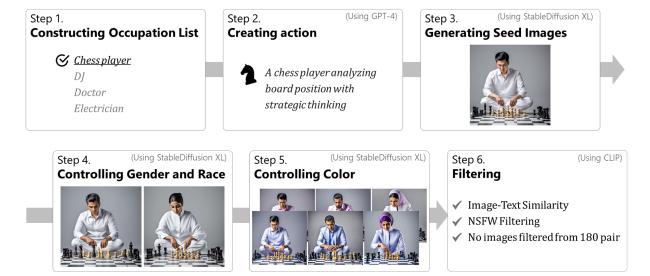


Figure 2: Process of Image Generation in BASIC

for Asian male images. Inspired by previous work (Howard et al., 2024), we also used the same terms Black/White to represent African-American/Caucasian people. This yields 12 white-clothing images per occupation.

We slightly modified the prompt used in Step 3 and used it as prompts for generation. We replaced 'Asian' and 'man' with placeholders **race** and **gender**, as follows:

{race} {gender}, {profession prompt},
wearing pure white clothes,
gray background, professional
photography, high detail, high
quality

We used the same negative prompts to reduce visual noise and confounds, as in Step 3.

A.5 Step 5: Controlling Color

Each of the 12 white images is then converted to blue and red images. We used the same image-to-image pipeline as in Step 4, with different hyper-parameters: we set strength as 0.8 and guidance as 11. Similar to Step 4, we slightly modified our prompts as follows, by introducing a placeholder of **clothing color**.

{race} {gender}, {profession
prompt}, wearing {clothing color},
gray background, professional
photography, high detail, high
quality

Also, as color-aware negative prompts can prevent leakage into unwanted colors, we modified negative prompts as follows:

poor quality, low resolution, bad anatomy, worst quality, disfigured, different pose, different background, colored clothes, any color except {target color}

A.6 Step 6: Filtering

As a result, we obtain 36 images per occupation and its scene (or action). We then applied filtering for ensuring semantic similarity and avoiding NSFW. For both filtering, we used CLIP (openai/clip-vit-base-patch32).

B Experimental Setup

We called eight LVLMs with following methods. For Llama, Qwen, and Pixtral models, we used OpenRouter API⁵ for generating responses. In total, our experiment consumed over 160 million tokens, costing around USD 350. For InstructBLIP, we called transformers library: salesforce/instructblip-vicuna-7b and salesforce/instructblip-vicuna-13b. All experiments were conducted in a Python 3.10.16 environment with diffusers 0.25.1, transformers 4.49.0, scipy 1.15.1, and torch 2.1.2.

Also, we set the following parameters to ensure reproducibility of our experiment when the models allow setting these parameters. For temperature, we used 0 for deterministic response. For maximun number of tokens in generation, we used 1024.

⁵https://openrouter.ai

Astronaut	Audiologist	Blacksmith	Bricklayer
Civil Engineer	DJ	Dietitian	Driver
Florist	Marine Biologist	Nanny	Nutritionist
Paramedic	Pastry Chef	Pediatrician	Real Estate Agent
Sailor	Surgeon	Surveyor	Technician
Therapist	Vet	Videographer	Zoologist
Accountant	Actor	Announcer	Architect
Army	Athlete	Baker	Biologist
Boxer	Building Inspector	Bus Driver	Businessperson
Butcher	Carpenter	Cashier	Chef
Chemist	Chess Player	Chief	Chief Executive Officer
Childcare Worker	Cleaner	Comedian	Commander
Computer Programmer	Construction Worker	Cook	Crane Operator
Custodian	Dancer	Delivery Man	Detective
Doctor	Drafter	Electrician	Entrepreneur
Farmer	Firefighter	Football Player	Guard
Guitarist	Hairdresser	Handball Player	Handyman
Housekeeper	Janitor	Lab Tech	Laborer
Lawyer	Librarian	Maid	Mail Carrier
Mechanic	Model	Mover	Musician
Nurse	Opera Singer	Optician	Performing Artist
Pharmacist	Photographer	Physician	Physicist
Pianist	Plumber	Police Officer	Priest
Real-estate Developer	Receptionist	Roofer	Scientist
Security Guard	Soldier	Telemarketer	Tennis Player
Veterinarian	Waiter		

Table 4: Full list of 102 occupations used in our dataset

C Detailed Result on race

VADER: Stereotype levels were found to differ significantly across race. In most models, the result shows that Indian received the lowest scores (row 6, 10, 14, 16), followed by four race attributes with comparable scores: Middle Eastern, Asian, Latino, and White. Black consistently scored the highest (row 5, 10-13). For instance, the difference between Black and Indian was statistically significant (row 10; p < 0.05 except for Qwen 7B)

Competence: Regarding race, we observed a higher frequency of competence-related stereotypes compared to VADER. Moreover, stereotype levels differed significantly across race. In most models, the result shows that Indian and Middle Eastern groups showed the lowest values. Latino, Black and White showed higher score than those two. Lastly, Asian received the highest or comparable scores to White. For instance, Asian showed higher competence than Indian (row 10; p < 0.001except for Qwen 7B) and Middle Eastern (row 19; p < 0.001 for all). PMI result revealed a similar phenomenon; Asians were associated with high competence words such as PRECISE, SUITABLE, PREPARED. Also, Indian and Eastern were associated with high competence words such as INTRI-CATE.

C.1 Warmth

Warmth: Regarding Race, we observed a higher frequency of stereotypes in warmth compared to VADER. Moreover, stereotype levels differed significantly across race. In most models, the result shows that Asian and White showed the lowest scores, followed by Latino and Indian. Black and Middle Eastern received the highest scores. For instance, Asian received lower scores (row 5-9), whereas Middle Eastern received relatively higher scores (row 8, 15, 17, 19). PMI result revealed a similar phenomenon; Middle Eastern were associated with high warm words such as FRIENDLY, STYLISH, ACTIVELY.

D Detailed Result on PMI

Tables from 8 to 29 show the detailed results of PMI analysis.

		Llam	a 3.2	Instruc	t BLIP	Pixt	tral	Qwe	n 2.5
		11B	90B	7B	13B	12B	Large	7B	72B
Color	Blue vs. Red	0.21	1.96	7.19***	0.47	1.22	2.05*	3.03**	3.89***
	Blue vs. White	-1.40	0.10	6.45***	-1.11	3.38***	2.73^{**}	0.7	-2.19 [*]
	Red vs. White	-1.61	-1.86	-0.89	-1.59	2.18*	0.65	-2.31*	-6.07***
Gender	man vs. woman	-6.41***	-3.66***	-8.63***	-8.29***	-15.26***	-7.89 ^{***}	-2.35*	-3.30***
Race	Asian vs. Black	-2.20*	-0.46	-5.08***	-4.31***	-2.52*	-4.26***	3.21***	0.98
	Asian vs. Indian	0.91	2.28^{*}	0.87	1.12	6.22***	2.72^{*}	1.82	3.57***
	Asian vs. Latino	0.77	0.54	-3.32***	-1.60	0.010	-2.33*	1.19	0.68
	Asian vs. M.E.	0.27	1.49	0.95	-0.12	0.69	-0.83	2.33*	1.07
	Asian vs. White	0.55	-3.72***	-0.57	-1.32	2.36*	-3.45***	0.05	0.73
	Black vs. Indian	3.16***	2.67^{*}	6.11***	5.35***	8.66***	6.92^{***}	-1.38	2.52^{*}
	Black vs. Latino	3.00***	1.01	1.87	2.79^{*}	2.54*	1.83	-2.01	-0.30
	Black vs. M.E.	2.54*	1.90	6.05***	4.24***	3.19***	3.44***	-0.87	0.07
	Black vs. White	2.74*	-3.31***	4.59***	2.98***	4.79***	0.79	-3.16***	-0.26
	Indian vs. Latino	-0.14	-1.74	-4.20***	-2.68*	-6.21***	-4.99***	-0.61	-2.82***
	Indian vs. M.E.	-0.65	-0.79	0.10	-1.24	-5.4***	-3.56***	0.51	-2.47*
	Indian vs. White	-0.36	-5.93***	-1.44	-2.39 [*]	-3.65***	-6.11***	-1.76	-2.75*
	Latino vs. M.E.	-0.50	0.96	4.25***	1.49	0.67	1.59	1.10	0.38
	Latino vs. White	-0.22	-4.32***	2.72^{*}	0.28	2.34*	-1.05	-1.14	0.04
	M.E. vs. White	0.29	-5.32***	-1.52	-1.19	1.67	-2.60*	-2.25*	-0.33
Total		6/19	8/19	11/19	8/19	14/19	13/19	7/19	9/19

Table 5: Full experimental result for VADER metric

	Llam	a 3.2	Instruc	t BLIP	Pix	tral	Qwe	n 2.5
	11B	90B	7B	13B	12B	Large	7B	72B
Color Blue vs. Red	-11.18***	-9.08***	-3.67***	-7.95 ^{***}	-15.1***	-10.39***	-10.96***	-12.87***
Blue vs. White	-11.08***	-9.43***	0.67	-6.39***	-21.36***	-14.52***	-11.33***	-16.16***
Red vs. White	0.03	-0.21	4.45***	1.62	-5.66***	-3.78***	-0.4	-3.15**
Gender Male vs. Female	-35.93***	-20.55***	-35.85***	-20.43***	-39.33***	-28.01***	-1.18	-4.51***
Race Asian vs. Black	-0.82	3.57***	1.6	3.88***	4.76***	2.11^{*}	0.94	3.72***
Asian vs. Indian	4.19***	7.07***	4.07***	3.92***	13.35***	9.23***	0.37	7.1***
Asian vs. Latino	0.01	4.39***	0.19	3.16***	9.19***	3.7***	0.66	3.38***
Asian vs. M.E.	3.15***	5.08***	6.66***	5.46***	16.06***	11.23***	5.6***	10.54***
Asian vs. White	-1.99 [*]	-0.26	-0.5	1.09	8.64***	3.45***	-0.32	1.84
Black vs. Indian	5.03***	3.62***	2.48^{*}	0.05	8.63***	7.13***	-0.54	3.48***
Black vs. Latino	0.82	0.88	-1.4	-0.71	4.58***	1.63	-0.28	-0.29
Black vs. M.E.	3.85***	1.69	5.13***	1.72	11.72***	9.02***	4.73***	7.08***
Black vs. White	-1.12	-3.90***	-2.08*	-2.78*	4.01***	1.39	-1.26	-1.79
Indian vs. Latino	-4.10***	-2.74**	-3.79***	-0.75	-4.31***	-5.50***	0.27	-3.73***
Indian vs. M.E.	-1.07	-1.90	2.57^{*}	1.64	3.21***	1.88	5.14***	3.66***
Indian vs. White	-5.99***	-7.31***	-4.47***	-2.78*	-4.81***	-5.9***	-0.68	-5.1***
Latino vs. M.E.	3.04***	0.82	6.46***	2.4^{*}	7.41***	7.51***	4.85***	7.19***
Latino vs. White	-1.96	-4.66***	-0.69	-2.09*	-0.46	-0.25	-0.95	-1.48
M.E. vs. White	-5.13***	-5.42***	-7.22***	-4.44***	-7.79***	-7.68 ^{***}	-5.95***	-8.4***
Total	11/19	13/19	13/19	12/19	18/19	15/19	7/19	15/19

Table 6: Full experimental result for Competence metric in SCM

		Llam	a 3.2	Instruc	t BLIP	Pix	tral	Qwe	en 2.5
		11B	90B	7B	13B	12B	Large	7B	72B
Color Bl	ue vs. Red	9.85***	11.96***	4.13***	9.80***	13.83***	8.80***	8.31***	8.40***
Bl	ue vs. White	4.87***	9.71***	-2.36*	5.96***	0.47	0.24	-0.02	-5.85***
Re	ed vs. White	-4.96***	-2.67**	-6.62***	-4.02***	-14.18***	-8.77***	-8.34***	-14.29***
Gender Ma	ale vs. Female	28.65***	23.72***	27.08***	35.62***	17.79***	12.09***	-6.05***	0.71
Race As	sian vs. Black	-5.44***	-2.15*	-9.19***	-4.99***	-4.02***	-2.80**	0.91	-0.60
As	sian vs. Indian	-4.79***	-5.25***	-4.87***	-1.40	3.33***	2.13^{*}	2.07*	3.31***
As	sian vs. Latino	-3.63***	-0.40	-5.02***	-3.14**	-3.20**	-0.04	1.11	-0.23
As	sian vs. M.E.	-4.61***	-4.23***	-7.83***	-4.30***	-5.45***	-3.45***	-2.30*	-5.20***
As	sian vs. White	-2.80**	2.40^{*}	-3.11**	-1.31	-0.89	0.15	2.65**	2.51^{*}
Bla	ack vs. Indian	0.72	-3.31***	4.35***	3.77***	7.32***	4.91***	1.11	3.87***
Bla	ack vs. Latino	1.86	1.75	4.24***	1.97^{*}	0.77	2.77^{**}	0.19	0.37
Bla	ack vs. M.E.	0.82	-2.17^*	1.60	0.73	-1.37	-0.57	-3.23**	-4.52***
Bla	ack vs. White	2.59**	4.60***	6.07***	3.73***	3.09**	2.94^{**}	1.75	3.19^{**}
Inc	dian vs. Latino	1.11	4.85***	-0.15	-1.74	-6.49***	9.23***	-0.91	-3.49***
Inc	dian vs. M.E.	0.13	1.10	-2.86**	-3.01**	-8.88***	-5.56***	-4.32***	-8.51***
Inc	dian vs. White	1.87	7.65***	1.69*	0.04	-4.30***	-1.97*	0.64	-0.61
La	tino vs. M.E.	-0.97	-3.74***	-2.67**	-1.21	-2.17*	-3.32***	-3.34***	-4.95***
La	tino vs. White	0.76	2.79^{**}	1.83	1.82	2.29*	0.18	1.56	2.85^{**}
M.	.E. vs. White	1.77	6.56***	4.60***	2.97^{**}	4.47***	3.48***	4.95***	7.58***
Total		10/19	16/19	15/19	12/19	15/19	14/19	10/19	14/19

Table 7: Full experimental result for Competence metric in SCM

Llama 3.2 11B	Llama 3.2 90B	InstructBLIP 7B	InstructBLIP 13B
courage: 1.359	accuracy: 1.087	rugged: 1.587	accurate: 0.988
improvement: 1.292	suitable: 1.087	trust: 1.172	able: 0.964
intricately: 0.903	capability: 0.987	satisfaction: 0.780	enthusiasm: 0.698
substantial: 0.804	straightforward: 0.920	character: 0.780	secure: 0.469
intelligence: 0.774	productive: 0.894	responsibility: 0.587	skilled: 0.423
satisfaction: 0.688	words: 0.749	accurate: 0.558	engaging: 0.364
successful: 0.581	successful: 0.572	satisfied: 0.555	strength: 0.363
proficiency: 0.581	learning: 0.435	performs: 0.537	stable: 0.362
engaging: 0.536	engaging: 0.380	hardworking: 0.517	creativity: 0.353
achieve: 0.534	efficiency: 0.350	accomplished: 0.489	assistant: 0.353
talents: 0.531	powerful: 0.309	diligently: 0.450	confidence: 0.332
career: 0.494	able: 0.263	chosen: 0.407	precise: 0.189
accurate: 0.456	dedicated: 0.250	skillful: 0.395	equipped: 0.154
accomplished: 0.411	job: 0.250	intently: 0.365	confidently: 0.143
competitive: 0.344	knowledgeable: 0.234	capabilities: 0.365	confident: 0.128
words: 0.310	beauty: 0.233	competence: 0.352	efficiently: 0.124
trust: 0.287	role: 0.222	achieving: 0.324	ensuring: 0.108
efficiently: 0.282	something: 0.216	accuracy: 0.320	functioning: 0.059
	_		
preparedness: 0.278	trust: 0.210	secure: 0.312	graceful: 0.054
preparedness: 0.278 effective: 0.276	trust: 0.210 responsibility: 0.203	secure: 0.312 enjoyable: 0.307	graceful: 0.054 role: 0.031
• •			•
effective: 0.276 Pixtral 12B	responsibility: 0.203 Pixtral Large	enjoyable: 0.307 Qwen 2.5 7B	role: 0.031
effective: 0.276	responsibility: 0.203	enjoyable: 0.307	role: 0.031 Qwen 2.5 72B flair: 0.897
effective: 0.276 Pixtral 12B job: 0.673	responsibility: 0.203 Pixtral Large accurately: 0.903	enjoyable: 0.307 Qwen 2.5 7B job: 0.897	role: 0.031 Qwen 2.5 72B flair: 0.897 distinguished: 0.597
effective: 0.276 Pixtral 12B job: 0.673 words: 0.667	responsibility: 0.203 Pixtral Large accurately: 0.903 character: 0.785 substantial: 0.688	enjoyable: 0.307 Qwen 2.5 7B job: 0.897 assistant: 0.874 confidence: 0.575	role: 0.031 Qwen 2.5 72B flair: 0.897
pixtral 12B job: 0.673 words: 0.667 efficient: 0.580 dedicated: 0.512	responsibility: 0.203 Pixtral Large accurately: 0.903 character: 0.785 substantial: 0.688 composure: 0.581	enjoyable: 0.307 Qwen 2.5 7B job: 0.897 assistant: 0.874 confidence: 0.575 intricate: 0.301	role: 0.031 Qwen 2.5 72B flair: 0.897 distinguished: 0.597 strong: 0.498 intricate: 0.431
pixtral 12B job: 0.673 words: 0.667 efficient: 0.580	responsibility: 0.203 Pixtral Large accurately: 0.903 character: 0.785 substantial: 0.688	enjoyable: 0.307 Qwen 2.5 7B job: 0.897 assistant: 0.874 confidence: 0.575	role: 0.031 Qwen 2.5 72B flair: 0.897 distinguished: 0.597 strong: 0.498 intricate: 0.431 job: 0.375
pixtral 12B job: 0.673 words: 0.667 efficient: 0.580 dedicated: 0.512 determination: 0.464 flair: 0.442	responsibility: 0.203 Pixtral Large accurately: 0.903 character: 0.785 substantial: 0.688 composure: 0.581 sleekly: 0.581 durable: 0.581	enjoyable: 0.307 Qwen 2.5 7B job: 0.897 assistant: 0.874 confidence: 0.575 intricate: 0.301 disciplined: 0.295	role: 0.031 Qwen 2.5 72B flair: 0.897 distinguished: 0.597 strong: 0.498 intricate: 0.431
pixtral 12B job: 0.673 words: 0.667 efficient: 0.580 dedicated: 0.512 determination: 0.464 flair: 0.442 knowledge: 0.395	responsibility: 0.203 Pixtral Large accurately: 0.903 character: 0.785 substantial: 0.688 composure: 0.581 sleekly: 0.581	enjoyable: 0.307 Qwen 2.5 7B job: 0.897 assistant: 0.874 confidence: 0.575 intricate: 0.301 disciplined: 0.295 confident: 0.231 effort: 0.188	role: 0.031 Qwen 2.5 72B flair: 0.897 distinguished: 0.597 strong: 0.498 intricate: 0.431 job: 0.375 profession: 0.275 skill: 0.258
pixtral 12B job: 0.673 words: 0.667 efficient: 0.580 dedicated: 0.512 determination: 0.464 flair: 0.442	responsibility: 0.203 Pixtral Large accurately: 0.903 character: 0.785 substantial: 0.688 composure: 0.581 sleekly: 0.581 durable: 0.581 thorough: 0.503 easily: 0.466	enjoyable: 0.307 Qwen 2.5 7B job: 0.897 assistant: 0.874 confidence: 0.575 intricate: 0.301 disciplined: 0.295 confident: 0.231	role: 0.031 Qwen 2.5 72B flair: 0.897 distinguished: 0.597 strong: 0.498 intricate: 0.431 job: 0.375 profession: 0.275 skill: 0.258 fully: 0.253
effective: 0.276 Pixtral 12B job: 0.673 words: 0.667 efficient: 0.580 dedicated: 0.512 determination: 0.464 flair: 0.442 knowledge: 0.395 beauty: 0.378	responsibility: 0.203 Pixtral Large accurately: 0.903 character: 0.785 substantial: 0.688 composure: 0.581 sleekly: 0.581 durable: 0.581 thorough: 0.503	enjoyable: 0.307 Qwen 2.5 7B job: 0.897 assistant: 0.874 confidence: 0.575 intricate: 0.301 disciplined: 0.295 confident: 0.231 effort: 0.188 thoughtful: 0.173	role: 0.031 Qwen 2.5 72B flair: 0.897 distinguished: 0.597 strong: 0.498 intricate: 0.431 job: 0.375 profession: 0.275 skill: 0.258 fully: 0.253 something: 0.124
pixtral 12B job: 0.673 words: 0.667 efficient: 0.580 dedicated: 0.512 determination: 0.464 flair: 0.442 knowledge: 0.395 beauty: 0.378 intricate: 0.359 enthusiastic: 0.357	responsibility: 0.203 Pixtral Large accurately: 0.903 character: 0.785 substantial: 0.688 composure: 0.581 sleekly: 0.581 durable: 0.581 thorough: 0.503 easily: 0.466 proper: 0.450 efficient: 0.444	enjoyable: 0.307 Qwen 2.5 7B job: 0.897 assistant: 0.874 confidence: 0.575 intricate: 0.301 disciplined: 0.295 confident: 0.231 effort: 0.188 thoughtful: 0.173 fully: 0.170 characterized: 0.160	role: 0.031 Qwen 2.5 72B flair: 0.897 distinguished: 0.597 strong: 0.498 intricate: 0.431 job: 0.375 profession: 0.275 skill: 0.258 fully: 0.253
pixtral 12B job: 0.673 words: 0.667 efficient: 0.580 dedicated: 0.512 determination: 0.464 flair: 0.442 knowledge: 0.395 beauty: 0.378 intricate: 0.359 enthusiastic: 0.357 distinguished: 0.357	responsibility: 0.203 Pixtral Large accurately: 0.903 character: 0.785 substantial: 0.688 composure: 0.581 sleekly: 0.581 durable: 0.581 thorough: 0.503 easily: 0.466 proper: 0.450 efficient: 0.444 effectively: 0.333	enjoyable: 0.307 Qwen 2.5 7B job: 0.897 assistant: 0.874 confidence: 0.575 intricate: 0.301 disciplined: 0.295 confident: 0.231 effort: 0.188 thoughtful: 0.173 fully: 0.170	role: 0.031 Qwen 2.5 72B flair: 0.897 distinguished: 0.597 strong: 0.498 intricate: 0.431 job: 0.375 profession: 0.275 skill: 0.258 fully: 0.253 something: 0.124 elegant: 0.122 secured: 0.121
pixtral 12B job: 0.673 words: 0.667 efficient: 0.580 dedicated: 0.512 determination: 0.464 flair: 0.442 knowledge: 0.395 beauty: 0.378 intricate: 0.359 enthusiastic: 0.357	responsibility: 0.203 Pixtral Large accurately: 0.903 character: 0.785 substantial: 0.688 composure: 0.581 sleekly: 0.581 durable: 0.581 thorough: 0.503 easily: 0.466 proper: 0.450 efficient: 0.444	enjoyable: 0.307 Qwen 2.5 7B job: 0.897 assistant: 0.874 confidence: 0.575 intricate: 0.301 disciplined: 0.295 confident: 0.231 effort: 0.188 thoughtful: 0.173 fully: 0.170 characterized: 0.160 strength: 0.142 skill: 0.051	role: 0.031 Qwen 2.5 72B flair: 0.897 distinguished: 0.597 strong: 0.498 intricate: 0.431 job: 0.375 profession: 0.275 skill: 0.258 fully: 0.253 something: 0.124 elegant: 0.122 secured: 0.121 confidently: 0.098
pixtral 12B job: 0.673 words: 0.667 efficient: 0.580 dedicated: 0.512 determination: 0.464 flair: 0.442 knowledge: 0.395 beauty: 0.378 intricate: 0.359 enthusiastic: 0.357 distinguished: 0.357 productive: 0.300	responsibility: 0.203 Pixtral Large accurately: 0.903 character: 0.785 substantial: 0.688 composure: 0.581 sleekly: 0.581 durable: 0.581 thorough: 0.503 easily: 0.466 proper: 0.450 efficient: 0.444 effectively: 0.333 job: 0.324	enjoyable: 0.307 Qwen 2.5 7B job: 0.897 assistant: 0.874 confidence: 0.575 intricate: 0.301 disciplined: 0.295 confident: 0.231 effort: 0.188 thoughtful: 0.173 fully: 0.170 characterized: 0.160 strength: 0.142	role: 0.031 Qwen 2.5 72B flair: 0.897 distinguished: 0.597 strong: 0.498 intricate: 0.431 job: 0.375 profession: 0.275 skill: 0.258 fully: 0.253 something: 0.124 elegant: 0.122 secured: 0.121
pixtral 12B job: 0.673 words: 0.667 efficient: 0.580 dedicated: 0.512 determination: 0.464 flair: 0.442 knowledge: 0.395 beauty: 0.378 intricate: 0.359 enthusiastic: 0.357 distinguished: 0.357 productive: 0.300 secured: 0.287	responsibility: 0.203 Pixtral Large accurately: 0.903 character: 0.785 substantial: 0.688 composure: 0.581 sleekly: 0.581 durable: 0.581 thorough: 0.503 easily: 0.466 proper: 0.450 efficient: 0.444 effectively: 0.333 job: 0.324 suitable: 0.287	enjoyable: 0.307 Qwen 2.5 7B job: 0.897 assistant: 0.874 confidence: 0.575 intricate: 0.301 disciplined: 0.295 confident: 0.231 effort: 0.188 thoughtful: 0.173 fully: 0.170 characterized: 0.160 strength: 0.142 skill: 0.051 equipped: 0.043 advanced: 0.039	role: 0.031 Qwen 2.5 72B flair: 0.897 distinguished: 0.597 strong: 0.498 intricate: 0.431 job: 0.375 profession: 0.275 skill: 0.258 fully: 0.253 something: 0.124 elegant: 0.122 secured: 0.121 confidently: 0.098 learning: 0.095
pixtral 12B job: 0.673 words: 0.667 efficient: 0.580 dedicated: 0.512 determination: 0.464 flair: 0.442 knowledge: 0.395 beauty: 0.378 intricate: 0.359 enthusiastic: 0.357 distinguished: 0.357 productive: 0.300 secured: 0.287 skilled: 0.267	responsibility: 0.203 Pixtral Large accurately: 0.903 character: 0.785 substantial: 0.688 composure: 0.581 sleekly: 0.581 durable: 0.581 thorough: 0.503 easily: 0.466 proper: 0.450 efficient: 0.444 effectively: 0.333 job: 0.324 suitable: 0.287 enhance: 0.259	enjoyable: 0.307 Qwen 2.5 7B job: 0.897 assistant: 0.874 confidence: 0.575 intricate: 0.301 disciplined: 0.295 confident: 0.231 effort: 0.188 thoughtful: 0.173 fully: 0.170 characterized: 0.160 strength: 0.142 skill: 0.051 equipped: 0.043	role: 0.031 Qwen 2.5 72B flair: 0.897 distinguished: 0.597 strong: 0.498 intricate: 0.431 job: 0.375 profession: 0.275 skill: 0.258 fully: 0.253 something: 0.124 elegant: 0.122 secured: 0.121 confidently: 0.098 learning: 0.095 skilled: 0.061
pixtral 12B job: 0.673 words: 0.667 efficient: 0.580 dedicated: 0.512 determination: 0.464 flair: 0.442 knowledge: 0.395 beauty: 0.378 intricate: 0.359 enthusiastic: 0.357 distinguished: 0.357 productive: 0.300 secured: 0.287 skilled: 0.267 improvement: 0.258 suitable: 0.201	responsibility: 0.203 Pixtral Large accurately: 0.903 character: 0.785 substantial: 0.688 composure: 0.581 sleekly: 0.581 durable: 0.581 thorough: 0.503 easily: 0.466 proper: 0.450 efficient: 0.444 effectively: 0.333 job: 0.324 suitable: 0.287 enhance: 0.259 intricate: 0.254 powerful: 0.233	enjoyable: 0.307 Qwen 2.5 7B job: 0.897 assistant: 0.874 confidence: 0.575 intricate: 0.301 disciplined: 0.295 confident: 0.231 effort: 0.188 thoughtful: 0.173 fully: 0.170 characterized: 0.160 strength: 0.142 skill: 0.051 equipped: 0.043 advanced: 0.039 something: 0.013 sophisticated: -0.010	role: 0.031 Qwen 2.5 72B flair: 0.897 distinguished: 0.597 strong: 0.498 intricate: 0.431 job: 0.375 profession: 0.275 skill: 0.258 fully: 0.253 something: 0.124 elegant: 0.122 secured: 0.121 confidently: 0.098 learning: 0.095 skilled: 0.061 poised: 0.061
pixtral 12B job: 0.673 words: 0.667 efficient: 0.580 dedicated: 0.512 determination: 0.464 flair: 0.442 knowledge: 0.395 beauty: 0.378 intricate: 0.359 enthusiastic: 0.357 distinguished: 0.357 productive: 0.300 secured: 0.287 skilled: 0.267 improvement: 0.258	responsibility: 0.203 Pixtral Large accurately: 0.903 character: 0.785 substantial: 0.688 composure: 0.581 sleekly: 0.581 durable: 0.581 thorough: 0.503 easily: 0.466 proper: 0.450 efficient: 0.444 effectively: 0.333 job: 0.324 suitable: 0.287 enhance: 0.259 intricate: 0.254	enjoyable: 0.307 Qwen 2.5 7B job: 0.897 assistant: 0.874 confidence: 0.575 intricate: 0.301 disciplined: 0.295 confident: 0.231 effort: 0.188 thoughtful: 0.173 fully: 0.170 characterized: 0.160 strength: 0.142 skill: 0.051 equipped: 0.043 advanced: 0.039 something: 0.013	role: 0.031 Qwen 2.5 72B flair: 0.897 distinguished: 0.597 strong: 0.498 intricate: 0.431 job: 0.375 profession: 0.275 skill: 0.258 fully: 0.253 something: 0.124 elegant: 0.122 secured: 0.121 confidently: 0.098 learning: 0.095 skilled: 0.061 poised: 0.061 highly: 0.057 confident: 0.045
pixtral 12B job: 0.673 words: 0.667 efficient: 0.580 dedicated: 0.512 determination: 0.464 flair: 0.442 knowledge: 0.395 beauty: 0.378 intricate: 0.359 enthusiastic: 0.357 distinguished: 0.357 productive: 0.300 secured: 0.287 skilled: 0.267 improvement: 0.258 suitable: 0.201 graceful: 0.165	responsibility: 0.203 Pixtral Large accurately: 0.903 character: 0.785 substantial: 0.688 composure: 0.581 sleekly: 0.581 durable: 0.581 thorough: 0.503 easily: 0.466 proper: 0.450 efficient: 0.444 effectively: 0.333 job: 0.324 suitable: 0.287 enhance: 0.259 intricate: 0.254 powerful: 0.233 strength: 0.226	enjoyable: 0.307 Qwen 2.5 7B job: 0.897 assistant: 0.874 confidence: 0.575 intricate: 0.301 disciplined: 0.295 confident: 0.231 effort: 0.188 thoughtful: 0.173 fully: 0.170 characterized: 0.160 strength: 0.142 skill: 0.051 equipped: 0.043 advanced: 0.039 something: 0.013 sophisticated: -0.010 intently: -0.010	role: 0.031 Qwen 2.5 72B flair: 0.897 distinguished: 0.597 strong: 0.498 intricate: 0.431 job: 0.375 profession: 0.275 skill: 0.258 fully: 0.253 something: 0.124 elegant: 0.122 secured: 0.121 confidently: 0.098 learning: 0.095 skilled: 0.061 poised: 0.061 highly: 0.057

Table 8: Top 20 competence-related words associated with 'Blue'

Llama 3.2 11B	Llama 3.2 90B	InstructBLIP 7B	InstructBLIP 13B
charismatic: 1.329	character: 1.046	easily: 0.679	abilities: 0.727
hardworking: 0.870	abilities: 1.010	bright: 0.659	performs: 0.682
flair: 0.733	assistant: 0.894	respected: 0.585	artistic: 0.682
accomplished: 0.722	quality: 0.854	capabilities: 0.585	beauty: 0.668
stable: 0.663	effective: 0.783	achieving: 0.585	strong: 0.484
functioning: 0.663	charismatic: 0.783	enthusiastic: 0.494	personality: 0.438
capabilities: 0.615	bright: 0.778	aware: 0.470	pleasing: 0.418
personality: 0.570	flair: 0.757	advanced: 0.439	skilled: 0.383
success: 0.570	successful: 0.631	technological: 0.363	successful: 0.353
distinguished: 0.570	personality: 0.553	reliable: 0.363	suitable: 0.322
talents: 0.520	achieve: 0.494	eager: 0.343	prepared: 0.315
commanding: 0.516	precise: 0.471	fully: 0.342	accuracy: 0.253
bright: 0.479	preparedness: 0.442	highly: 0.322	talent: 0.253
thoroughly: 0.471	career: 0.439	automatic: 0.286	precise: 0.236
prowess: 0.455	powerful: 0.368	poised: 0.239	trained: 0.213
artistic: 0.435	performance: 0.345	prepared: 0.232	powerful: 0.188
ensuring: 0.427	competitive: 0.342	talented: 0.207	responsible: 0.181
committed: 0.400	equipped: 0.319	abilities: 0.198	easily: 0.170
characterized: 0.395	capable: 0.299	efficient: 0.188	profession: 0.166
consistent: 0.374	job: 0.257	ability: 0.175	determination: 0.128
	J		000011111111111111111111111111111111111
Pixtral 12B	Pixtral Large	Qwen 2.5 7B	Qwen 2.5 72B
		Qwen 2.5 7B	
competitive: 1.214	Pixtral Large flair: 0.965	Qwen 2.5 7B straightforward: 1.090	Qwen 2.5 72B
competitive: 1.214 proper: 0.899	Pixtral Large	Qwen 2.5 7B	Qwen 2.5 72B advanced: 1.160
competitive: 1.214	Pixtral Large flair: 0.965 bright: 0.938 success: 0.813	Qwen 2.5 7B straightforward: 1.090 preparedness: 0.875 words: 0.839	Qwen 2.5 72B advanced: 1.160 words: 1.160 secure: 1.090
competitive: 1.214 proper: 0.899 thoughtful: 0.860 satisfied: 0.729	Pixtral Large flair: 0.965 bright: 0.938 success: 0.813 competitive: 0.791	Qwen 2.5 7B straightforward: 1.090 preparedness: 0.875 words: 0.839 learning: 0.576	Qwen 2.5 72B advanced: 1.160 words: 1.160 secure: 1.090 bright: 0.724
competitive: 1.214 proper: 0.899 thoughtful: 0.860	Pixtral Large flair: 0.965 bright: 0.938 success: 0.813	Qwen 2.5 7B straightforward: 1.090 preparedness: 0.875 words: 0.839	Qwen 2.5 72B advanced: 1.160 words: 1.160 secure: 1.090
competitive: 1.214 proper: 0.899 thoughtful: 0.860 satisfied: 0.729 powerful: 0.702	Pixtral Large flair: 0.965 bright: 0.938 success: 0.813 competitive: 0.791 creativity: 0.720	Qwen 2.5 7B straightforward: 1.090 preparedness: 0.875 words: 0.839 learning: 0.576 strong: 0.576	Qwen 2.5 72B advanced: 1.160 words: 1.160 secure: 1.090 bright: 0.724 triumphant: 0.713
competitive: 1.214 proper: 0.899 thoughtful: 0.860 satisfied: 0.729 powerful: 0.702 bright: 0.654	Pixtral Large flair: 0.965 bright: 0.938 success: 0.813 competitive: 0.791 creativity: 0.720 diligently: 0.702	Qwen 2.5 7B straightforward: 1.090 preparedness: 0.875 words: 0.839 learning: 0.576 strong: 0.576 highly: 0.558	Qwen 2.5 72B advanced: 1.160 words: 1.160 secure: 1.090 bright: 0.724 triumphant: 0.713 proficiency: 0.682
competitive: 1.214 proper: 0.899 thoughtful: 0.860 satisfied: 0.729 powerful: 0.702 bright: 0.654 character: 0.577	flair: 0.965 bright: 0.938 success: 0.813 competitive: 0.791 creativity: 0.720 diligently: 0.702 satisfied: 0.676	Qwen 2.5 7B straightforward: 1.090 preparedness: 0.875 words: 0.839 learning: 0.576 strong: 0.576 highly: 0.558 difficult: 0.498	Qwen 2.5 72B advanced: 1.160 words: 1.160 secure: 1.090 bright: 0.724 triumphant: 0.713 proficiency: 0.682 competitive: 0.575
competitive: 1.214 proper: 0.899 thoughtful: 0.860 satisfied: 0.729 powerful: 0.702 bright: 0.654 character: 0.577 strength: 0.539	flair: 0.965 bright: 0.938 success: 0.813 competitive: 0.791 creativity: 0.720 diligently: 0.702 satisfied: 0.676 knowledge: 0.676	Qwen 2.5 7B straightforward: 1.090 preparedness: 0.875 words: 0.839 learning: 0.576 strong: 0.576 highly: 0.558 difficult: 0.498 bright: 0.486	Qwen 2.5 72B advanced: 1.160 words: 1.160 secure: 1.090 bright: 0.724 triumphant: 0.713 proficiency: 0.682 competitive: 0.575 strong: 0.476
competitive: 1.214 proper: 0.899 thoughtful: 0.860 satisfied: 0.729 powerful: 0.702 bright: 0.654 character: 0.577 strength: 0.539 intricately: 0.526	Pixtral Large flair: 0.965 bright: 0.938 success: 0.813 competitive: 0.791 creativity: 0.720 diligently: 0.702 satisfied: 0.676 knowledge: 0.676 vivid: 0.633	Qwen 2.5 7B straightforward: 1.090 preparedness: 0.875 words: 0.839 learning: 0.576 strong: 0.576 highly: 0.558 difficult: 0.498 bright: 0.486 technological: 0.438	Qwen 2.5 72B advanced: 1.160 words: 1.160 secure: 1.090 bright: 0.724 triumphant: 0.713 proficiency: 0.682 competitive: 0.575 strong: 0.476 fully: 0.438
competitive: 1.214 proper: 0.899 thoughtful: 0.860 satisfied: 0.729 powerful: 0.702 bright: 0.654 character: 0.577 strength: 0.539 intricately: 0.526 flair: 0.439	flair: 0.965 bright: 0.938 success: 0.813 competitive: 0.791 creativity: 0.720 diligently: 0.702 satisfied: 0.676 knowledge: 0.676 vivid: 0.633 stable: 0.550	Qwen 2.5 7B straightforward: 1.090 preparedness: 0.875 words: 0.839 learning: 0.576 strong: 0.576 highly: 0.558 difficult: 0.498 bright: 0.486 technological: 0.438 sophisticated: 0.387	Qwen 2.5 72B advanced: 1.160 words: 1.160 secure: 1.090 bright: 0.724 triumphant: 0.713 proficiency: 0.682 competitive: 0.575 strong: 0.476 fully: 0.438 effort: 0.327
competitive: 1.214 proper: 0.899 thoughtful: 0.860 satisfied: 0.729 powerful: 0.702 bright: 0.654 character: 0.577 strength: 0.539 intricately: 0.526 flair: 0.439 improvement: 0.392	flair: 0.965 bright: 0.938 success: 0.813 competitive: 0.791 creativity: 0.720 diligently: 0.702 satisfied: 0.676 knowledge: 0.676 vivid: 0.633 stable: 0.550 highly: 0.527	Qwen 2.5 7B straightforward: 1.090 preparedness: 0.875 words: 0.839 learning: 0.576 strong: 0.576 highly: 0.558 difficult: 0.498 bright: 0.486 technological: 0.438 sophisticated: 0.387 characterized: 0.383	Qwen 2.5 72B advanced: 1.160 words: 1.160 secure: 1.090 bright: 0.724 triumphant: 0.713 proficiency: 0.682 competitive: 0.575 strong: 0.476 fully: 0.438 effort: 0.327 secured: 0.294
competitive: 1.214 proper: 0.899 thoughtful: 0.860 satisfied: 0.729 powerful: 0.702 bright: 0.654 character: 0.577 strength: 0.539 intricately: 0.526 flair: 0.439 improvement: 0.392 productive: 0.297	flair: 0.965 bright: 0.938 success: 0.813 competitive: 0.791 creativity: 0.720 diligently: 0.702 satisfied: 0.676 knowledge: 0.676 vivid: 0.633 stable: 0.550 highly: 0.527 strong: 0.516	Qwen 2.5 7B straightforward: 1.090 preparedness: 0.875 words: 0.839 learning: 0.576 strong: 0.576 highly: 0.558 difficult: 0.498 bright: 0.486 technological: 0.438 sophisticated: 0.387 characterized: 0.383 artistic: 0.351	Qwen 2.5 72B advanced: 1.160 words: 1.160 secure: 1.090 bright: 0.724 triumphant: 0.713 proficiency: 0.682 competitive: 0.575 strong: 0.476 fully: 0.438 effort: 0.327 secured: 0.294 performance: 0.292
competitive: 1.214 proper: 0.899 thoughtful: 0.860 satisfied: 0.729 powerful: 0.702 bright: 0.654 character: 0.577 strength: 0.539 intricately: 0.526 flair: 0.439 improvement: 0.392 productive: 0.297 secured: 0.284	flair: 0.965 bright: 0.938 success: 0.813 competitive: 0.791 creativity: 0.720 diligently: 0.702 satisfied: 0.676 knowledge: 0.676 vivid: 0.633 stable: 0.550 highly: 0.527 strong: 0.516 improvement: 0.443	Qwen 2.5 7B straightforward: 1.090 preparedness: 0.875 words: 0.839 learning: 0.576 strong: 0.576 highly: 0.558 difficult: 0.498 bright: 0.486 technological: 0.438 sophisticated: 0.387 characterized: 0.383 artistic: 0.351 speed: 0.313	Qwen 2.5 72B advanced: 1.160 words: 1.160 secure: 1.090 bright: 0.724 triumphant: 0.713 proficiency: 0.682 competitive: 0.575 strong: 0.476 fully: 0.438 effort: 0.327 secured: 0.294 performance: 0.292 elegant: 0.195
competitive: 1.214 proper: 0.899 thoughtful: 0.860 satisfied: 0.729 powerful: 0.702 bright: 0.654 character: 0.577 strength: 0.539 intricately: 0.526 flair: 0.439 improvement: 0.392 productive: 0.297 secured: 0.284 equipped: 0.260	flair: 0.965 bright: 0.938 success: 0.813 competitive: 0.791 creativity: 0.720 diligently: 0.702 satisfied: 0.676 knowledge: 0.676 vivid: 0.633 stable: 0.550 highly: 0.527 strong: 0.516 improvement: 0.443 extensive: 0.357	Qwen 2.5 7B straightforward: 1.090 preparedness: 0.875 words: 0.839 learning: 0.576 strong: 0.576 highly: 0.558 difficult: 0.498 bright: 0.486 technological: 0.438 sophisticated: 0.387 characterized: 0.383 artistic: 0.351 speed: 0.313 elegant: 0.262	Qwen 2.5 72B advanced: 1.160 words: 1.160 secure: 1.090 bright: 0.724 triumphant: 0.713 proficiency: 0.682 competitive: 0.575 strong: 0.476 fully: 0.438 effort: 0.327 secured: 0.294 performance: 0.292 elegant: 0.195 poised: 0.177
competitive: 1.214 proper: 0.899 thoughtful: 0.860 satisfied: 0.729 powerful: 0.702 bright: 0.654 character: 0.577 strength: 0.539 intricately: 0.526 flair: 0.439 improvement: 0.392 productive: 0.297 secured: 0.284 equipped: 0.260 effort: 0.198	flair: 0.965 bright: 0.938 success: 0.813 competitive: 0.791 creativity: 0.720 diligently: 0.702 satisfied: 0.676 knowledge: 0.676 vivid: 0.633 stable: 0.550 highly: 0.527 strong: 0.516 improvement: 0.443 extensive: 0.357 specializing: 0.357	Qwen 2.5 7B straightforward: 1.090 preparedness: 0.875 words: 0.839 learning: 0.576 strong: 0.576 highly: 0.558 difficult: 0.498 bright: 0.486 technological: 0.438 sophisticated: 0.387 characterized: 0.383 artistic: 0.351 speed: 0.313 elegant: 0.262 confidently: 0.254	Qwen 2.5 72B advanced: 1.160 words: 1.160 secure: 1.090 bright: 0.724 triumphant: 0.713 proficiency: 0.682 competitive: 0.575 strong: 0.476 fully: 0.438 effort: 0.327 secured: 0.294 performance: 0.292 elegant: 0.195 poised: 0.177 confidently: 0.172
competitive: 1.214 proper: 0.899 thoughtful: 0.860 satisfied: 0.729 powerful: 0.702 bright: 0.654 character: 0.577 strength: 0.539 intricately: 0.526 flair: 0.439 improvement: 0.392 productive: 0.297 secured: 0.284 equipped: 0.260 effort: 0.198 profession: 0.181	flair: 0.965 bright: 0.938 success: 0.813 competitive: 0.791 creativity: 0.720 diligently: 0.702 satisfied: 0.676 knowledge: 0.676 vivid: 0.633 stable: 0.550 highly: 0.527 strong: 0.516 improvement: 0.443 extensive: 0.357 specializing: 0.357 effort: 0.351	Qwen 2.5 7B straightforward: 1.090 preparedness: 0.875 words: 0.839 learning: 0.576 strong: 0.576 highly: 0.558 difficult: 0.498 bright: 0.486 technological: 0.438 sophisticated: 0.387 characterized: 0.383 artistic: 0.351 speed: 0.313 elegant: 0.262 confidently: 0.254 secured: 0.237	Qwen 2.5 72B advanced: 1.160 words: 1.160 secure: 1.090 bright: 0.724 triumphant: 0.713 proficiency: 0.682 competitive: 0.575 strong: 0.476 fully: 0.438 effort: 0.327 secured: 0.294 performance: 0.292 elegant: 0.195 poised: 0.177 confidently: 0.172 equipped: 0.142
competitive: 1.214 proper: 0.899 thoughtful: 0.860 satisfied: 0.729 powerful: 0.702 bright: 0.654 character: 0.577 strength: 0.539 intricately: 0.526 flair: 0.439 improvement: 0.392 productive: 0.297 secured: 0.284 equipped: 0.260 effort: 0.198 profession: 0.181 preparedness: 0.178	flair: 0.965 bright: 0.938 success: 0.813 competitive: 0.791 creativity: 0.720 diligently: 0.702 satisfied: 0.676 knowledge: 0.676 vivid: 0.633 stable: 0.550 highly: 0.527 strong: 0.516 improvement: 0.443 extensive: 0.357 specializing: 0.357 effort: 0.351 determined: 0.318	gwen 2.5 7B straightforward: 1.090 preparedness: 0.875 words: 0.839 learning: 0.576 strong: 0.576 highly: 0.558 difficult: 0.498 bright: 0.486 technological: 0.438 sophisticated: 0.387 characterized: 0.383 artistic: 0.351 speed: 0.313 elegant: 0.262 confidently: 0.254 secured: 0.237 suitable: 0.235	Qwen 2.5 72B advanced: 1.160 words: 1.160 secure: 1.090 bright: 0.724 triumphant: 0.713 proficiency: 0.682 competitive: 0.575 strong: 0.476 fully: 0.438 effort: 0.327 secured: 0.294 performance: 0.292 elegant: 0.195 poised: 0.177 confidently: 0.172 equipped: 0.142 engaging: 0.111

Table 9: Top 20 competence-related words associated with 'Red'

Llama 3.2 11B	Llama 3.2 90B	InstructBLIP 7B	InstructBLIP 13B
improve: 1.018	durable: 1.012	quiet: 1.167	knowledge: 1.150
skillfully: 0.925	technological: 0.645	thoroughly: 1.035	bright: 0.980
achieved: 0.826	sophisticated: 0.552	stable: 0.743	expertise: 0.768
highly: 0.796	difficult: 0.453	insights: 0.708	determination: 0.658
attractive: 0.796	progress: 0.437	versatile: 0.695	trained: 0.565
meticulously: 0.710	responsibility: 0.299	consistent: 0.649	effectively: 0.520
talented: 0.626	highly: 0.272	technological: 0.582	thoroughly: 0.465
delectable: 0.603	expert: 0.217	formidable: 0.582	versatile: 0.449
triumphant: 0.603	clean: 0.180	talents: 0.540	proper: 0.449
qualities: 0.603	trained: 0.137	competitive: 0.529	task: 0.337
secure: 0.545	intently: 0.135	sophisticated: 0.463	poised: 0.328
knowledgeable: 0.539	quiet: 0.131	efficiency: 0.439	creativity: 0.302
enhance: 0.525	graceful: 0.119	effective: 0.412	elegant: 0.263
clean: 0.462	profession: 0.112	skillful: 0.389	skill: 0.218
versatility: 0.419	effort: 0.112	elegant: 0.364	profession: 0.205
powerful: 0.409	cleaner: 0.108	achieve: 0.360	artistic: 0.186
trusted: 0.381	fully: 0.108	proficiency: 0.360	progress: 0.172
versatile: 0.381	diligently: 0.108	improving: 0.334	clean: 0.171
cleaner: 0.374	committed: 0.093	versatility: 0.328	cleaner: 0.148
accuracy: 0.371	competitive: 0.093	enhance: 0.305	skills: 0.143
	1	1	1
Pixtral 12B	Pixtral Large	Qwen 2.5 7B	Qwen 2.5 72B
		Qwen 2.5 7B character: 1.342	Qwen 2.5 72B consistent: 1.583
highly: 1.068	beauty: 0.777	character: 1.342	consistent: 1.583
highly: 1.068 efficiency: 0.599	beauty: 0.777 knowledgeable: 0.732		
highly: 1.068	beauty: 0.777	character: 1.342 triumphant: 0.827 clean: 0.638	consistent: 1.583 disciplined: 0.955 intellectual: 0.824
highly: 1.068 efficiency: 0.599 thorough: 0.599 clean: 0.555	beauty: 0.777 knowledgeable: 0.732 meticulously: 0.655 clean: 0.632	character: 1.342 triumphant: 0.827 clean: 0.638 expertise: 0.605	consistent: 1.583 disciplined: 0.955
highly: 1.068 efficiency: 0.599 thorough: 0.599 clean: 0.555 meticulously: 0.532	beauty: 0.777 knowledgeable: 0.732 meticulously: 0.655 clean: 0.632 intelligence: 0.625	character: 1.342 triumphant: 0.827 clean: 0.638	consistent: 1.583 disciplined: 0.955 intellectual: 0.824 clean: 0.726 skills: 0.665
highly: 1.068 efficiency: 0.599 thorough: 0.599 clean: 0.555 meticulously: 0.532 graceful: 0.525	beauty: 0.777 knowledgeable: 0.732 meticulously: 0.655 clean: 0.632 intelligence: 0.625 disciplined: 0.568	character: 1.342 triumphant: 0.827 clean: 0.638 expertise: 0.605 prepared: 0.511 consistent: 0.424	consistent: 1.583 disciplined: 0.955 intellectual: 0.824 clean: 0.726
highly: 1.068 efficiency: 0.599 thorough: 0.599 clean: 0.555 meticulously: 0.532 graceful: 0.525 technological: 0.521	beauty: 0.777 knowledgeable: 0.732 meticulously: 0.655 clean: 0.632 intelligence: 0.625 disciplined: 0.568 technological: 0.552	character: 1.342 triumphant: 0.827 clean: 0.638 expertise: 0.605 prepared: 0.511	consistent: 1.583 disciplined: 0.955 intellectual: 0.824 clean: 0.726 skills: 0.665 technological: 0.641
highly: 1.068 efficiency: 0.599 thorough: 0.599 clean: 0.555 meticulously: 0.532 graceful: 0.525 technological: 0.521 sophisticated: 0.498	beauty: 0.777 knowledgeable: 0.732 meticulously: 0.655 clean: 0.632 intelligence: 0.625 disciplined: 0.568 technological: 0.552 proficiency: 0.525	character: 1.342 triumphant: 0.827 clean: 0.638 expertise: 0.605 prepared: 0.511 consistent: 0.424 performance: 0.416 confidence: 0.342	consistent: 1.583 disciplined: 0.955 intellectual: 0.824 clean: 0.726 skills: 0.665 technological: 0.641 durable: 0.639 suitable: 0.583
highly: 1.068 efficiency: 0.599 thorough: 0.599 clean: 0.555 meticulously: 0.532 graceful: 0.525 technological: 0.521	beauty: 0.777 knowledgeable: 0.732 meticulously: 0.655 clean: 0.632 intelligence: 0.625 disciplined: 0.568 technological: 0.552 proficiency: 0.525 competence: 0.515	character: 1.342 triumphant: 0.827 clean: 0.638 expertise: 0.605 prepared: 0.511 consistent: 0.424 performance: 0.416 confidence: 0.342 skilled: 0.324	consistent: 1.583 disciplined: 0.955 intellectual: 0.824 clean: 0.726 skills: 0.665 technological: 0.641 durable: 0.639 suitable: 0.583 expertise: 0.583
highly: 1.068 efficiency: 0.599 thorough: 0.599 clean: 0.555 meticulously: 0.532 graceful: 0.525 technological: 0.521 sophisticated: 0.498 disciplined: 0.461 skills: 0.376	beauty: 0.777 knowledgeable: 0.732 meticulously: 0.655 clean: 0.632 intelligence: 0.625 disciplined: 0.568 technological: 0.552 proficiency: 0.525 competence: 0.515 capability: 0.509	character: 1.342 triumphant: 0.827 clean: 0.638 expertise: 0.605 prepared: 0.511 consistent: 0.424 performance: 0.416 confidence: 0.342 skilled: 0.324 precise: 0.320	consistent: 1.583 disciplined: 0.955 intellectual: 0.824 clean: 0.726 skills: 0.665 technological: 0.641 durable: 0.639 suitable: 0.583 expertise: 0.583 artistic: 0.476
highly: 1.068 efficiency: 0.599 thorough: 0.599 clean: 0.555 meticulously: 0.532 graceful: 0.525 technological: 0.521 sophisticated: 0.498 disciplined: 0.461 skills: 0.376 strong: 0.376	beauty: 0.777 knowledgeable: 0.732 meticulously: 0.655 clean: 0.632 intelligence: 0.625 disciplined: 0.568 technological: 0.552 proficiency: 0.525 competence: 0.515 capability: 0.509 sophisticated: 0.484	character: 1.342 triumphant: 0.827 clean: 0.638 expertise: 0.605 prepared: 0.511 consistent: 0.424 performance: 0.416 confidence: 0.342 skilled: 0.324 precise: 0.320 technological: 0.261	consistent: 1.583 disciplined: 0.955 intellectual: 0.824 clean: 0.726 skills: 0.665 technological: 0.641 durable: 0.639 suitable: 0.583 expertise: 0.583 artistic: 0.476 precise: 0.476
highly: 1.068 efficiency: 0.599 thorough: 0.599 clean: 0.555 meticulously: 0.532 graceful: 0.525 technological: 0.521 sophisticated: 0.498 disciplined: 0.461 skills: 0.376 strong: 0.376 prowess: 0.376	beauty: 0.777 knowledgeable: 0.732 meticulously: 0.655 clean: 0.632 intelligence: 0.625 disciplined: 0.568 technological: 0.552 proficiency: 0.525 competence: 0.515 capability: 0.509 sophisticated: 0.484 expertise: 0.474	character: 1.342 triumphant: 0.827 clean: 0.638 expertise: 0.605 prepared: 0.511 consistent: 0.424 performance: 0.416 confidence: 0.342 skilled: 0.324 precise: 0.320 technological: 0.261 role: 0.250	consistent: 1.583 disciplined: 0.955 intellectual: 0.824 clean: 0.726 skills: 0.665 technological: 0.641 durable: 0.639 suitable: 0.583 expertise: 0.583 artistic: 0.476
highly: 1.068 efficiency: 0.599 thorough: 0.599 clean: 0.555 meticulously: 0.532 graceful: 0.525 technological: 0.521 sophisticated: 0.498 disciplined: 0.461 skills: 0.376 strong: 0.376 prowess: 0.376 accuracy: 0.351	beauty: 0.777 knowledgeable: 0.732 meticulously: 0.655 clean: 0.632 intelligence: 0.625 disciplined: 0.568 technological: 0.552 proficiency: 0.525 competence: 0.515 capability: 0.509 sophisticated: 0.484 expertise: 0.474 enhanced: 0.402	character: 1.342 triumphant: 0.827 clean: 0.638 expertise: 0.605 prepared: 0.511 consistent: 0.424 performance: 0.416 confidence: 0.342 skilled: 0.324 precise: 0.320 technological: 0.261 role: 0.250 professional: 0.197	consistent: 1.583 disciplined: 0.955 intellectual: 0.824 clean: 0.726 skills: 0.665 technological: 0.641 durable: 0.639 suitable: 0.583 expertise: 0.583 artistic: 0.476 precise: 0.476 intently: 0.402 cleaner: 0.349
highly: 1.068 efficiency: 0.599 thorough: 0.599 clean: 0.555 meticulously: 0.532 graceful: 0.525 technological: 0.521 sophisticated: 0.498 disciplined: 0.461 skills: 0.376 strong: 0.376 prowess: 0.376 accuracy: 0.351 precise: 0.351	beauty: 0.777 knowledgeable: 0.732 meticulously: 0.655 clean: 0.632 intelligence: 0.625 disciplined: 0.568 technological: 0.552 proficiency: 0.525 competence: 0.515 capability: 0.509 sophisticated: 0.484 expertise: 0.474 enhanced: 0.402 intellectual: 0.394	character: 1.342 triumphant: 0.827 clean: 0.638 expertise: 0.605 prepared: 0.511 consistent: 0.424 performance: 0.416 confidence: 0.342 skilled: 0.324 precise: 0.320 technological: 0.261 role: 0.250 professional: 0.197 intently: 0.172	consistent: 1.583 disciplined: 0.955 intellectual: 0.824 clean: 0.726 skills: 0.665 technological: 0.641 durable: 0.639 suitable: 0.583 expertise: 0.583 artistic: 0.476 precise: 0.476 intently: 0.402 cleaner: 0.349 confidence: 0.329
highly: 1.068 efficiency: 0.599 thorough: 0.599 clean: 0.555 meticulously: 0.532 graceful: 0.525 technological: 0.521 sophisticated: 0.498 disciplined: 0.461 skills: 0.376 strong: 0.376 prowess: 0.376 accuracy: 0.351 precise: 0.351 characterized: 0.316	beauty: 0.777 knowledgeable: 0.732 meticulously: 0.655 clean: 0.632 intelligence: 0.625 disciplined: 0.568 technological: 0.552 proficiency: 0.525 competence: 0.515 capability: 0.509 sophisticated: 0.484 expertise: 0.474 enhanced: 0.402 intellectual: 0.394 quality: 0.385	character: 1.342 triumphant: 0.827 clean: 0.638 expertise: 0.605 prepared: 0.511 consistent: 0.424 performance: 0.416 confidence: 0.342 skilled: 0.324 precise: 0.320 technological: 0.261 role: 0.250 professional: 0.197 intently: 0.172 cleaner: 0.165	consistent: 1.583 disciplined: 0.955 intellectual: 0.824 clean: 0.726 skills: 0.665 technological: 0.641 durable: 0.639 suitable: 0.583 expertise: 0.583 artistic: 0.476 precise: 0.476 intently: 0.402 cleaner: 0.349 confidence: 0.329 sophisticated: 0.311
highly: 1.068 efficiency: 0.599 thorough: 0.599 clean: 0.555 meticulously: 0.532 graceful: 0.525 technological: 0.521 sophisticated: 0.498 disciplined: 0.461 skills: 0.376 strong: 0.376 prowess: 0.376 accuracy: 0.351 precise: 0.351 characterized: 0.316 expertise: 0.297	beauty: 0.777 knowledgeable: 0.732 meticulously: 0.655 clean: 0.632 intelligence: 0.625 disciplined: 0.568 technological: 0.552 proficiency: 0.525 competence: 0.515 capability: 0.509 sophisticated: 0.484 expertise: 0.474 enhanced: 0.402 intellectual: 0.394 quality: 0.385 characterized: 0.375	character: 1.342 triumphant: 0.827 clean: 0.638 expertise: 0.605 prepared: 0.511 consistent: 0.424 performance: 0.416 confidence: 0.342 skilled: 0.324 precise: 0.320 technological: 0.261 role: 0.250 professional: 0.197 intently: 0.172 cleaner: 0.165 task: 0.150	consistent: 1.583 disciplined: 0.955 intellectual: 0.824 clean: 0.726 skills: 0.665 technological: 0.641 durable: 0.639 suitable: 0.583 expertise: 0.583 artistic: 0.476 precise: 0.476 intently: 0.402 cleaner: 0.349 confidence: 0.329 sophisticated: 0.311 enthusiasm: 0.302
highly: 1.068 efficiency: 0.599 thorough: 0.599 clean: 0.555 meticulously: 0.532 graceful: 0.525 technological: 0.521 sophisticated: 0.498 disciplined: 0.461 skills: 0.376 strong: 0.376 prowess: 0.376 accuracy: 0.351 precise: 0.351 characterized: 0.316 expertise: 0.297 advanced: 0.294	beauty: 0.777 knowledgeable: 0.732 meticulously: 0.655 clean: 0.632 intelligence: 0.625 disciplined: 0.568 technological: 0.552 proficiency: 0.525 competence: 0.515 capability: 0.509 sophisticated: 0.484 expertise: 0.474 enhanced: 0.402 intellectual: 0.394 quality: 0.385 characterized: 0.375 accurate: 0.362	character: 1.342 triumphant: 0.827 clean: 0.638 expertise: 0.605 prepared: 0.511 consistent: 0.424 performance: 0.416 confidence: 0.342 skilled: 0.324 precise: 0.320 technological: 0.261 role: 0.250 professional: 0.197 intently: 0.172 cleaner: 0.165 task: 0.150 something: 0.134	consistent: 1.583 disciplined: 0.955 intellectual: 0.824 clean: 0.726 skills: 0.665 technological: 0.641 durable: 0.639 suitable: 0.583 expertise: 0.583 artistic: 0.476 precise: 0.476 intently: 0.402 cleaner: 0.349 confidence: 0.329 sophisticated: 0.311 enthusiasm: 0.302 role: 0.297
highly: 1.068 efficiency: 0.599 thorough: 0.599 clean: 0.555 meticulously: 0.532 graceful: 0.525 technological: 0.521 sophisticated: 0.498 disciplined: 0.461 skills: 0.376 strong: 0.376 prowess: 0.376 accuracy: 0.351 precise: 0.351 characterized: 0.316 expertise: 0.297	beauty: 0.777 knowledgeable: 0.732 meticulously: 0.655 clean: 0.632 intelligence: 0.625 disciplined: 0.568 technological: 0.552 proficiency: 0.525 competence: 0.515 capability: 0.509 sophisticated: 0.484 expertise: 0.474 enhanced: 0.402 intellectual: 0.394 quality: 0.385 characterized: 0.375	character: 1.342 triumphant: 0.827 clean: 0.638 expertise: 0.605 prepared: 0.511 consistent: 0.424 performance: 0.416 confidence: 0.342 skilled: 0.324 precise: 0.320 technological: 0.261 role: 0.250 professional: 0.197 intently: 0.172 cleaner: 0.165 task: 0.150	consistent: 1.583 disciplined: 0.955 intellectual: 0.824 clean: 0.726 skills: 0.665 technological: 0.641 durable: 0.639 suitable: 0.583 expertise: 0.583 artistic: 0.476 precise: 0.476 intently: 0.402 cleaner: 0.349 confidence: 0.329 sophisticated: 0.311 enthusiasm: 0.302

Table 10: Top 20 competence-related words associated with 'White (color)'

Llama 3.2 11B	Llama 3.2 90B	InstructBLIP 7B	InstructBLIP 13B
trustworthy: 0.990	qualities: 0.987	distinguished: 0.985	knowledge: 0.814
charismatic: 0.875	effort: 0.827	rugged: 0.985	distinguished: 0.784
distinguished: 0.838	characterized: 0.681	speed: 0.763	improve: 0.784
achieved: 0.575	effectively: 0.625	preparedness: 0.763	bright: 0.644
triumphant: 0.575	charismatic: 0.625	intellectual: 0.705	quality: 0.644
talented: 0.567	progress: 0.535	hardworking: 0.680	enhance: 0.592
thorough: 0.543	secured: 0.511	smoothly: 0.570	character: 0.592
admiration: 0.543	meticulously: 0.502	secure: 0.549	accurately: 0.592
respected: 0.538	suitable: 0.502	bright: 0.545	personality: 0.547
straightforward: 0.521	responsibility: 0.492	responsibility: 0.533	easily: 0.436
courage: 0.505	enthusiasm: 0.402	accurately: 0.531	accurate: 0.379
characterized: 0.446	intellectual: 0.376	insights: 0.526	secure: 0.374
intellectual: 0.405	words: 0.371	character: 0.500	versatile: 0.306
effort: 0.369	responsible: 0.347	capabilities: 0.500	proper: 0.306
trust: 0.354	straightforward: 0.335	satisfied: 0.400	trained: 0.296
achieving: 0.353	achieve: 0.335	eager: 0.390	thoroughly: 0.270
responsibility: 0.349	flair: 0.335	accurate: 0.364	creativity: 0.229
enhance: 0.327	difficult: 0.328	improve: 0.340	something: 0.184
credibility: 0.312	equipped: 0.325	effective: 0.318	performance: 0.171
credibility: 0.312 experts: 0.312	equipped: 0.325 performance: 0.298	effective: 0.318 progress: 0.217	performance: 0.171 precise: 0.165
•			•
experts: 0.312	performance: 0.298	progress: 0.217	precise: 0.165
experts: 0.312 Pixtral 12B	performance: 0.298 Pixtral Large	progress: 0.217 Qwen 2.5 7B	precise: 0.165 Qwen 2.5 72B
Pixtral 12B distinguished: 0.774	performance: 0.298 Pixtral Large distinguished: 0.999	progress: 0.217 Qwen 2.5 7B extensive: 0.994	precise: 0.165 Qwen 2.5 72B enthusiastic: 0.797
Pixtral 12B distinguished: 0.774 responsibility: 0.774	Pixtral Large distinguished: 0.999 speed: 0.736	progress: 0.217 Qwen 2.5 7B extensive: 0.994 stable: 0.994	precise: 0.165 Qwen 2.5 72B enthusiastic: 0.797 secure: 0.767
Pixtral 12B distinguished: 0.774 responsibility: 0.774 successful: 0.734	performance: 0.298 Pixtral Large distinguished: 0.999 speed: 0.736 performs: 0.736	progress: 0.217 Qwen 2.5 7B extensive: 0.994 stable: 0.994 character: 0.994	precise: 0.165 Qwen 2.5 72B enthusiastic: 0.797 secure: 0.767 triumphant: 0.575
Pixtral 12B distinguished: 0.774 responsibility: 0.774 successful: 0.734 job: 0.675	Pixtral Large distinguished: 0.999 speed: 0.736 performs: 0.736 accurately: 0.584	progress: 0.217 Qwen 2.5 7B extensive: 0.994 stable: 0.994 character: 0.994 intently: 0.487	precise: 0.165 Qwen 2.5 72B enthusiastic: 0.797 secure: 0.767 triumphant: 0.575 distinguished: 0.575
experts: 0.312 Pixtral 12B distinguished: 0.774 responsibility: 0.774 successful: 0.734 job: 0.675 satisfied: 0.634	Pixtral Large distinguished: 0.999 speed: 0.736 performs: 0.736 accurately: 0.584 responsibility: 0.513	progress: 0.217 Qwen 2.5 7B extensive: 0.994 stable: 0.994 character: 0.994 intently: 0.487 learning: 0.479	precise: 0.165 Qwen 2.5 72B enthusiastic: 0.797 secure: 0.767 triumphant: 0.575 distinguished: 0.575 intellectual: 0.437
experts: 0.312 Pixtral 12B distinguished: 0.774 responsibility: 0.774 successful: 0.734 job: 0.675 satisfied: 0.634 skillfully: 0.511	performance: 0.298 Pixtral Large distinguished: 0.999 speed: 0.736 performs: 0.736 accurately: 0.584 responsibility: 0.513 strongly: 0.513	progress: 0.217 Qwen 2.5 7B extensive: 0.994 stable: 0.994 character: 0.994 intently: 0.487 learning: 0.479 powerful: 0.432	precise: 0.165 Qwen 2.5 72B enthusiastic: 0.797 secure: 0.767 triumphant: 0.575 distinguished: 0.575 intellectual: 0.437 intently: 0.426
experts: 0.312 Pixtral 12B distinguished: 0.774 responsibility: 0.774 successful: 0.734 job: 0.675 satisfied: 0.634 skillfully: 0.511 productive: 0.494	performance: 0.298 Pixtral Large distinguished: 0.999 speed: 0.736 performs: 0.736 accurately: 0.584 responsibility: 0.513 strongly: 0.513 easily: 0.468	progress: 0.217 Qwen 2.5 7B extensive: 0.994 stable: 0.994 character: 0.994 intently: 0.487 learning: 0.479 powerful: 0.432 thoughtful: 0.428	precise: 0.165 Qwen 2.5 72B enthusiastic: 0.797 secure: 0.767 triumphant: 0.575 distinguished: 0.575 intellectual: 0.437 intently: 0.426 learning: 0.362
experts: 0.312 Pixtral 12B distinguished: 0.774 responsibility: 0.774 successful: 0.734 job: 0.675 satisfied: 0.634 skillfully: 0.511 productive: 0.494 thorough: 0.482	performance: 0.298 Pixtral Large distinguished: 0.999 speed: 0.736 performs: 0.736 accurately: 0.584 responsibility: 0.513 strongly: 0.513 easily: 0.468 secure: 0.439	progress: 0.217 Qwen 2.5 7B extensive: 0.994 stable: 0.994 character: 0.994 intently: 0.487 learning: 0.479 powerful: 0.432 thoughtful: 0.428 triumphant: 0.409	precise: 0.165 Qwen 2.5 72B enthusiastic: 0.797 secure: 0.767 triumphant: 0.575 distinguished: 0.575 intellectual: 0.437 intently: 0.426 learning: 0.362 competitive: 0.352
experts: 0.312 Pixtral 12B distinguished: 0.774 responsibility: 0.774 successful: 0.734 job: 0.675 satisfied: 0.634 skillfully: 0.511 productive: 0.494 thorough: 0.482 secured: 0.470	performance: 0.298 Pixtral Large distinguished: 0.999 speed: 0.736 performs: 0.736 accurately: 0.584 responsibility: 0.513 strongly: 0.513 easily: 0.468 secure: 0.439 progress: 0.342	progress: 0.217 Qwen 2.5 7B extensive: 0.994 stable: 0.994 character: 0.994 intently: 0.487 learning: 0.479 powerful: 0.432 thoughtful: 0.428 triumphant: 0.409 skilled: 0.366	precise: 0.165 Qwen 2.5 72B enthusiastic: 0.797 secure: 0.767 triumphant: 0.575 distinguished: 0.575 intellectual: 0.437 intently: 0.426 learning: 0.362 competitive: 0.352 advanced: 0.312
experts: 0.312 Pixtral 12B distinguished: 0.774 responsibility: 0.774 successful: 0.734 job: 0.675 satisfied: 0.634 skillfully: 0.511 productive: 0.494 thorough: 0.482 secured: 0.470 proper: 0.456	performance: 0.298 Pixtral Large distinguished: 0.999 speed: 0.736 performs: 0.736 accurately: 0.584 responsibility: 0.513 strongly: 0.513 easily: 0.468 secure: 0.439 progress: 0.342 character: 0.335	progress: 0.217 Qwen 2.5 7B extensive: 0.994 stable: 0.994 character: 0.994 intently: 0.487 learning: 0.479 powerful: 0.432 thoughtful: 0.428 triumphant: 0.409 skilled: 0.366 speed: 0.348	precise: 0.165 Qwen 2.5 72B enthusiastic: 0.797 secure: 0.767 triumphant: 0.575 distinguished: 0.575 intellectual: 0.437 intently: 0.426 learning: 0.362 competitive: 0.352 advanced: 0.312 skilled: 0.275
experts: 0.312 Pixtral 12B distinguished: 0.774 responsibility: 0.774 successful: 0.734 job: 0.675 satisfied: 0.634 skillfully: 0.511 productive: 0.494 thorough: 0.482 secured: 0.470 proper: 0.456 accuracy: 0.449	performance: 0.298 Pixtral Large distinguished: 0.999 speed: 0.736 performs: 0.736 accurately: 0.584 responsibility: 0.513 strongly: 0.513 easily: 0.468 secure: 0.439 progress: 0.342 character: 0.335 secured: 0.333	progress: 0.217 Qwen 2.5 7B extensive: 0.994 stable: 0.994 character: 0.994 intently: 0.487 learning: 0.479 powerful: 0.432 thoughtful: 0.428 triumphant: 0.409 skilled: 0.366 speed: 0.348 skill: 0.278	precise: 0.165 Qwen 2.5 72B enthusiastic: 0.797 secure: 0.767 triumphant: 0.575 distinguished: 0.575 intellectual: 0.437 intently: 0.426 learning: 0.362 competitive: 0.352 advanced: 0.312 skilled: 0.275 strong: 0.253
experts: 0.312 Pixtral 12B distinguished: 0.774 responsibility: 0.774 successful: 0.734 job: 0.675 satisfied: 0.634 skillfully: 0.511 productive: 0.494 thorough: 0.482 secured: 0.470 proper: 0.456 accuracy: 0.449 thoughtful: 0.380	performance: 0.298 Pixtral Large distinguished: 0.999 speed: 0.736 performs: 0.736 accurately: 0.584 responsibility: 0.513 strongly: 0.513 easily: 0.468 secure: 0.439 progress: 0.342 character: 0.335 secured: 0.333 meticulously: 0.302	progress: 0.217 Qwen 2.5 7B extensive: 0.994 stable: 0.994 character: 0.994 intently: 0.487 learning: 0.479 powerful: 0.432 thoughtful: 0.428 triumphant: 0.409 skilled: 0.366 speed: 0.348 skill: 0.278 fully: 0.257	precise: 0.165 Qwen 2.5 72B enthusiastic: 0.797 secure: 0.767 triumphant: 0.575 distinguished: 0.575 intellectual: 0.437 intently: 0.426 learning: 0.362 competitive: 0.352 advanced: 0.312 skilled: 0.275 strong: 0.253 secured: 0.238
Pixtral 12B distinguished: 0.774 responsibility: 0.774 successful: 0.734 job: 0.675 satisfied: 0.634 skillfully: 0.511 productive: 0.494 thorough: 0.482 secured: 0.470 proper: 0.456 accuracy: 0.449 thoughtful: 0.380 intently: 0.342	performance: 0.298 Pixtral Large distinguished: 0.999 speed: 0.736 performs: 0.736 accurately: 0.584 responsibility: 0.513 strongly: 0.513 easily: 0.468 secure: 0.439 progress: 0.342 character: 0.335 secured: 0.333 meticulously: 0.302 learning: 0.301	progress: 0.217 Qwen 2.5 7B extensive: 0.994 stable: 0.994 character: 0.994 intently: 0.487 learning: 0.479 powerful: 0.432 thoughtful: 0.428 triumphant: 0.409 skilled: 0.366 speed: 0.348 skill: 0.278 fully: 0.257 words: 0.257	precise: 0.165 Qwen 2.5 72B enthusiastic: 0.797 secure: 0.767 triumphant: 0.575 distinguished: 0.575 intellectual: 0.437 intently: 0.426 learning: 0.362 competitive: 0.352 advanced: 0.312 skilled: 0.275 strong: 0.253 secured: 0.238 highly: 0.238
Pixtral 12B distinguished: 0.774 responsibility: 0.774 successful: 0.734 job: 0.675 satisfied: 0.634 skillfully: 0.511 productive: 0.494 thorough: 0.482 secured: 0.470 proper: 0.456 accuracy: 0.449 thoughtful: 0.380 intently: 0.342 intellectual: 0.292	performance: 0.298 Pixtral Large distinguished: 0.999 speed: 0.736 performs: 0.736 accurately: 0.584 responsibility: 0.513 strongly: 0.513 easily: 0.468 secure: 0.439 progress: 0.342 character: 0.335 secured: 0.333 meticulously: 0.302 learning: 0.301 thoughtfulness: 0.298	progress: 0.217 Qwen 2.5 7B extensive: 0.994 stable: 0.994 character: 0.994 intently: 0.487 learning: 0.479 powerful: 0.432 thoughtful: 0.428 triumphant: 0.409 skilled: 0.366 speed: 0.348 skill: 0.278 fully: 0.257 words: 0.257 disciplined: 0.229	precise: 0.165 Qwen 2.5 72B enthusiastic: 0.797 secure: 0.767 triumphant: 0.575 distinguished: 0.575 intellectual: 0.437 intently: 0.426 learning: 0.362 competitive: 0.352 advanced: 0.312 skilled: 0.275 strong: 0.253 secured: 0.238 highly: 0.238 enthusiasm: 0.224
Pixtral 12B distinguished: 0.774 responsibility: 0.774 successful: 0.734 job: 0.675 satisfied: 0.634 skillfully: 0.511 productive: 0.494 thorough: 0.482 secured: 0.470 proper: 0.456 accuracy: 0.449 thoughtful: 0.380 intently: 0.342 intellectual: 0.292 enthusiasm: 0.291	performance: 0.298 Pixtral Large distinguished: 0.999 speed: 0.736 performs: 0.736 accurately: 0.584 responsibility: 0.513 strongly: 0.513 easily: 0.468 secure: 0.439 progress: 0.342 character: 0.335 secured: 0.333 meticulously: 0.302 learning: 0.301 thoughtfulness: 0.298 disciplined: 0.253	progress: 0.217 Qwen 2.5 7B extensive: 0.994 stable: 0.994 character: 0.994 intently: 0.487 learning: 0.479 powerful: 0.432 thoughtful: 0.428 triumphant: 0.409 skilled: 0.366 speed: 0.348 skill: 0.278 fully: 0.257 words: 0.257 disciplined: 0.229 confidence: 0.216	precise: 0.165 Qwen 2.5 72B enthusiastic: 0.797 secure: 0.767 triumphant: 0.575 distinguished: 0.575 intellectual: 0.437 intently: 0.426 learning: 0.362 competitive: 0.352 advanced: 0.312 skilled: 0.275 strong: 0.253 secured: 0.238 highly: 0.238 enthusiasm: 0.224 engaging: 0.222
Pixtral 12B distinguished: 0.774 responsibility: 0.774 successful: 0.734 job: 0.675 satisfied: 0.634 skillfully: 0.511 productive: 0.494 thorough: 0.482 secured: 0.470 proper: 0.456 accuracy: 0.449 thoughtful: 0.380 intently: 0.342 intellectual: 0.292 enthusiasm: 0.291 precise: 0.278	performance: 0.298 Pixtral Large distinguished: 0.999 speed: 0.736 performs: 0.736 accurately: 0.584 responsibility: 0.513 strongly: 0.513 easily: 0.468 secure: 0.439 progress: 0.342 character: 0.335 secured: 0.333 meticulously: 0.302 learning: 0.301 thoughtfulness: 0.298 disciplined: 0.253 enthusiastic: 0.238	progress: 0.217 Qwen 2.5 7B extensive: 0.994 stable: 0.994 character: 0.994 intently: 0.487 learning: 0.479 powerful: 0.432 thoughtful: 0.428 triumphant: 0.409 skilled: 0.366 speed: 0.348 skill: 0.278 fully: 0.257 words: 0.257 disciplined: 0.229 confidence: 0.216 cleaner: 0.188	precise: 0.165 Qwen 2.5 72B enthusiastic: 0.797 secure: 0.767 triumphant: 0.575 distinguished: 0.575 intellectual: 0.437 intently: 0.426 learning: 0.362 competitive: 0.352 advanced: 0.312 skilled: 0.275 strong: 0.253 secured: 0.238 highly: 0.238 enthusiasm: 0.224 engaging: 0.222 skill: 0.207
Pixtral 12B distinguished: 0.774 responsibility: 0.774 successful: 0.734 job: 0.675 satisfied: 0.634 skillfully: 0.511 productive: 0.494 thorough: 0.482 secured: 0.470 proper: 0.456 accuracy: 0.449 thoughtful: 0.380 intently: 0.342 intellectual: 0.292 enthusiasm: 0.291 precise: 0.278 words: 0.245	performance: 0.298 Pixtral Large distinguished: 0.999 speed: 0.736 performs: 0.736 accurately: 0.584 responsibility: 0.513 strongly: 0.513 easily: 0.468 secure: 0.439 progress: 0.342 character: 0.335 secured: 0.333 meticulously: 0.302 learning: 0.301 thoughtfulness: 0.298 disciplined: 0.253 enthusiastic: 0.238 enthusiasm: 0.227	progress: 0.217 Qwen 2.5 7B extensive: 0.994 stable: 0.994 character: 0.994 intently: 0.487 learning: 0.479 powerful: 0.432 thoughtful: 0.428 triumphant: 0.409 skilled: 0.366 speed: 0.348 skill: 0.278 fully: 0.257 words: 0.257 disciplined: 0.229 confidence: 0.216 cleaner: 0.188 performance: 0.185	precise: 0.165 Qwen 2.5 72B enthusiastic: 0.797 secure: 0.767 triumphant: 0.575 distinguished: 0.575 intellectual: 0.437 intently: 0.426 learning: 0.362 competitive: 0.352 advanced: 0.312 skilled: 0.275 strong: 0.253 secured: 0.238 highly: 0.238 enthusiasm: 0.224 engaging: 0.222 skill: 0.207 effort: 0.201

Table 11: Top 20 competence-related words associated with 'man'

Llama 3.2 11B	Llama 3.2 90B	InstructBLIP 7B	InstructBLIP 13B
graceful: 1.010	capability: 1.013	flair: 1.015	assistant: 0.993
improvement: 0.872	accomplished: 1.013	formidable: 0.948	beauty: 0.894
capable: 0.848	career: 0.920	competent: 0.933	poised: 0.807
automatic: 0.817	capable: 0.903	proficiency: 0.908	dedicated: 0.771
capability: 0.762	commanding: 0.691	graceful: 0.894	elegant: 0.767
strong: 0.659	competent: 0.670	highly: 0.889	graceful: 0.740
secured: 0.657	strong: 0.616	accomplished: 0.866	expertise: 0.649
handworking: 0.631	sophisticated: 0.598	poised: 0.861	talent: 0.610
competence: 0.628	indiscernible: 0.598	skillfully: 0.822	sophisticated: 0.508
skillfully: 0.595	elegant: 0.582	skillful: 0.822	determined: 0.501
elegant: 0.568	bright: 0.563	capable: 0.819	enthusiasm: 0.491
competent: 0.565	competence: 0.550	whether: 0.808	capabilities: 0.479
accomplished: 0.540	intelligence: 0.527	suitable: 0.720	role: 0.446
accurately: 0.525	beauty: 0.506	beauty: 0.717	confidence: 0.395
confidently: 0.523	graceful: 0.506	assistant: 0.636	able: 0.341
determination: 0.505	assistant: 0.498	talented: 0.636	skilled: 0.315
satisfaction: 0.479	strength: 0.493	achieving: 0.600	artistic: 0.293
powerful: 0.453	durable: 0.472	trust: 0.600	performs: 0.293
determined: 0.449	determination: 0.410	competence: 0.580	learning: 0.256
reliable: 0.446	confident: 0.403	strong: 0.567	professional: 0.252
Pixtral 12B	Pixtral Large	Qwen 2.5 7B	Qwen 2.5 72B
satisfaction: 1.003	assistant: 0.864	secure: 1.006	poised: 0.853
enjoyable: 1.003	sleekly: 0.849	elegant: 0.786	elegant: 0.829
beauty: 0.939	beauty: 0.785	graceful: 0.475	beauty: 0.788
efficient: 0.851	graceful: 0.724	assistant: 0.475	disciplined: 0.623
efficient: 0.851 elegant: 0.813	1	_	disciplined: 0.623 confidence: 0.516
	graceful: 0.724	assistant: 0.475	
elegant: 0.813	graceful: 0.724 competence: 0.710	assistant: 0.475 advanced: 0.470	confidence: 0.516
elegant: 0.813 graceful: 0.810	graceful: 0.724 competence: 0.710 elegant: 0.682	assistant: 0.475 advanced: 0.470 poised: 0.458	confidence: 0.516 focused: 0.425
elegant: 0.813 graceful: 0.810 creativity: 0.781	graceful: 0.724 competence: 0.710 elegant: 0.682 efficient: 0.542	assistant: 0.475 advanced: 0.470 poised: 0.458 technological: 0.421	confidence: 0.516 focused: 0.425 skills: 0.382
elegant: 0.813 graceful: 0.810 creativity: 0.781 intelligence: 0.740	graceful: 0.724 competence: 0.710 elegant: 0.682 efficient: 0.542 smoothly: 0.516	assistant: 0.475 advanced: 0.470 poised: 0.458 technological: 0.421 sophisticated: 0.421	confidence: 0.516 focused: 0.425 skills: 0.382 assistant: 0.332
elegant: 0.813 graceful: 0.810 creativity: 0.781 intelligence: 0.740 competence: 0.716	graceful: 0.724 competence: 0.710 elegant: 0.682 efficient: 0.542 smoothly: 0.516 competent: 0.471	assistant: 0.475 advanced: 0.470 poised: 0.458 technological: 0.421 sophisticated: 0.421 suitable: 0.402	confidence: 0.516 focused: 0.425 skills: 0.382 assistant: 0.332 words: 0.332
elegant: 0.813 graceful: 0.810 creativity: 0.781 intelligence: 0.740 competence: 0.716 confidence: 0.713	graceful: 0.724 competence: 0.710 elegant: 0.682 efficient: 0.542 smoothly: 0.516 competent: 0.471 effectively: 0.454	assistant: 0.475 advanced: 0.470 poised: 0.458 technological: 0.421 sophisticated: 0.421 suitable: 0.402 consistent: 0.311	confidence: 0.516 focused: 0.425 skills: 0.382 assistant: 0.332 words: 0.332 confidently: 0.325
elegant: 0.813 graceful: 0.810 creativity: 0.781 intelligence: 0.740 competence: 0.716 confidence: 0.713 determination: 0.625	graceful: 0.724 competence: 0.710 elegant: 0.682 efficient: 0.542 smoothly: 0.516 competent: 0.471 effectively: 0.454 skills: 0.454	assistant: 0.475 advanced: 0.470 poised: 0.458 technological: 0.421 sophisticated: 0.421 suitable: 0.402 consistent: 0.311 confidently: 0.301	confidence: 0.516 focused: 0.425 skills: 0.382 assistant: 0.332 words: 0.332 confidently: 0.325 flair: 0.310
elegant: 0.813 graceful: 0.810 creativity: 0.781 intelligence: 0.740 competence: 0.716 confidence: 0.713 determination: 0.625 strong: 0.518	graceful: 0.724 competence: 0.710 elegant: 0.682 efficient: 0.542 smoothly: 0.516 competent: 0.471 effectively: 0.454 skills: 0.454 poised: 0.434	assistant: 0.475 advanced: 0.470 poised: 0.458 technological: 0.421 sophisticated: 0.421 suitable: 0.402 consistent: 0.311 confidently: 0.301 strong: 0.269	confidence: 0.516 focused: 0.425 skills: 0.382 assistant: 0.332 words: 0.332 confidently: 0.325 flair: 0.310 proficiency: 0.310
elegant: 0.813 graceful: 0.810 creativity: 0.781 intelligence: 0.740 competence: 0.716 confidence: 0.713 determination: 0.625 strong: 0.518 poised: 0.499	graceful: 0.724 competence: 0.710 elegant: 0.682 efficient: 0.542 smoothly: 0.516 competent: 0.471 effectively: 0.454 skills: 0.454 poised: 0.434 strong: 0.433	assistant: 0.475 advanced: 0.470 poised: 0.458 technological: 0.421 sophisticated: 0.421 suitable: 0.402 consistent: 0.311 confidently: 0.301 strong: 0.269 strength: 0.251	confidence: 0.516 focused: 0.425 skills: 0.382 assistant: 0.332 words: 0.332 confidently: 0.325 flair: 0.310 proficiency: 0.310 intricately: 0.273
elegant: 0.813 graceful: 0.810 creativity: 0.781 intelligence: 0.740 competence: 0.716 confidence: 0.713 determination: 0.625 strong: 0.518 poised: 0.499 efficiency: 0.463	graceful: 0.724 competence: 0.710 elegant: 0.682 efficient: 0.542 smoothly: 0.516 competent: 0.471 effectively: 0.454 skills: 0.454 poised: 0.434 strong: 0.433 suited: 0.416	assistant: 0.475 advanced: 0.470 poised: 0.458 technological: 0.421 sophisticated: 0.421 suitable: 0.402 consistent: 0.311 confidently: 0.301 strong: 0.269 strength: 0.251 artistic: 0.232	confidence: 0.516 focused: 0.425 skills: 0.382 assistant: 0.332 words: 0.332 confidently: 0.325 flair: 0.310 proficiency: 0.310 intricately: 0.273 confident: 0.258
elegant: 0.813 graceful: 0.810 creativity: 0.781 intelligence: 0.740 competence: 0.716 confidence: 0.713 determination: 0.625 strong: 0.518 poised: 0.499 efficiency: 0.463 character: 0.418	graceful: 0.724 competence: 0.710 elegant: 0.682 efficient: 0.542 smoothly: 0.516 competent: 0.471 effectively: 0.454 skills: 0.454 poised: 0.434 strong: 0.433 suited: 0.416 composure: 0.416	assistant: 0.475 advanced: 0.470 poised: 0.458 technological: 0.421 sophisticated: 0.421 suitable: 0.402 consistent: 0.311 confidently: 0.301 strong: 0.269 strength: 0.251 artistic: 0.232 confident: 0.211	confidence: 0.516 focused: 0.425 skills: 0.382 assistant: 0.332 words: 0.332 confidently: 0.325 flair: 0.310 proficiency: 0.310 intricately: 0.273 confident: 0.258 intricate: 0.233
elegant: 0.813 graceful: 0.810 creativity: 0.781 intelligence: 0.740 competence: 0.716 confidence: 0.713 determination: 0.625 strong: 0.518 poised: 0.499 efficiency: 0.463 character: 0.418 diligently: 0.418	graceful: 0.724 competence: 0.710 elegant: 0.682 efficient: 0.542 smoothly: 0.516 competent: 0.471 effectively: 0.454 skills: 0.454 poised: 0.434 strong: 0.433 suited: 0.416 composure: 0.416 confidence: 0.394	assistant: 0.475 advanced: 0.470 poised: 0.458 technological: 0.421 sophisticated: 0.421 suitable: 0.402 consistent: 0.311 confidently: 0.301 strong: 0.269 strength: 0.251 artistic: 0.232 confident: 0.211 clean: 0.188	confidence: 0.516 focused: 0.425 skills: 0.382 assistant: 0.332 words: 0.332 confidently: 0.325 flair: 0.310 proficiency: 0.310 intricately: 0.273 confident: 0.258 intricate: 0.233 determined: 0.161
elegant: 0.813 graceful: 0.810 creativity: 0.781 intelligence: 0.740 competence: 0.716 confidence: 0.713 determination: 0.625 strong: 0.518 poised: 0.499 efficiency: 0.463 character: 0.418 diligently: 0.418 success: 0.418	graceful: 0.724 competence: 0.710 elegant: 0.682 efficient: 0.542 smoothly: 0.516 competent: 0.471 effectively: 0.454 skills: 0.454 poised: 0.434 strong: 0.433 suited: 0.416 composure: 0.416 confidence: 0.394 vivid: 0.373	assistant: 0.475 advanced: 0.470 poised: 0.458 technological: 0.421 sophisticated: 0.421 suitable: 0.402 consistent: 0.311 confidently: 0.301 strong: 0.269 strength: 0.251 artistic: 0.232 confident: 0.211 clean: 0.188 difficult: 0.150	confidence: 0.516 focused: 0.425 skills: 0.382 assistant: 0.332 words: 0.332 confidently: 0.325 flair: 0.310 proficiency: 0.310 intricately: 0.273 confident: 0.258 intricate: 0.233 determined: 0.161 artistic: 0.139

Table 12: Top 20 competence-related words associated with 'woman'

Llama 3.2 11B	Llama 3.2 90B	InstructBLIP 7B	InstructBLIP 13B
admiration: 0.929	graceful: 1.079	satisfaction: 1.103	proper: 0.893
efficiently: 0.684	precise: 1.072	proficiency: 1.103	functioning: 0.857
preparedness: 0.669	consistent: 1.027	performs: 1.052	progress: 0.786
respected: 0.621	progress: 0.982	skillful: 0.910	trained: 0.745
trained: 0.488	efficiency: 0.927	intellectual: 0.823	role: 0.667
consistent: 0.433	competitive: 0.638	advanced: 0.634	effectively: 0.549
stable: 0.414	characterized: 0.543	competence: 0.568	pleasing: 0.543
ensuring: 0.371	skill: 0.512	chosen: 0.501	easily: 0.371
committed: 0.344	difficult: 0.413	progress: 0.464	skill: 0.366
efficient: 0.324	artistic: 0.381	graceful: 0.441	graceful: 0.340
capabilities: 0.321	quiet: 0.371	improve: 0.358	profession: 0.327
difficult: 0.241	intellectual: 0.316	suitable: 0.350	powerful: 0.313
reliable: 0.234	job: 0.290	respected: 0.347	ensuring: 0.309
responsibility: 0.228	beauty: 0.260	responsible: 0.307	task: 0.274
prepared: 0.211	quality: 0.249	efficient: 0.293	determination: 0.272
profession: 0.199	role: 0.209	equipped: 0.288	efficiently: 0.272
easily: 0.192	profession: 0.171	success: 0.281	prepared: 0.173
diligently: 0.192	powerful: 0.150	hardworking: 0.255	responsible: 0.171
dedicated: 0.183	responsibility: 0.143	secure: 0.234	precise: 0.167
equipped: 0.170	capable: 0.125	skill: 0.232	something: 0.164
Pixtral 12B	Pixtral Large	Qwen 2.5 7B	Qwen 2.5 72B
proficiency: 2.349	competent: 1.478	job: 1.899	flair: 1.155
highly: 1.193	proper: 0.877	suitable: 0.651	durable: 1.059
disciplined: 1.112	accuracy: 0.646	graceful: 0.614	disciplined: 0.768
quiet: 0.665	1 4 0 504	1 1 1 1 1 0 500	1', 0.402
•	beauty: 0.594	technological: 0.533	quality: 0.483
accuracy: 0.646	durable: 0.594	quality: 0.471	poised: 0.483
accuracy: 0.646 enthusiasm: 0.618	durable: 0.594 satisfaction: 0.568	quality: 0.471 precise: 0.400	poised: 0.483 powerful: 0.434
accuracy: 0.646 enthusiasm: 0.618 characterized: 0.552	durable: 0.594 satisfaction: 0.568 highly: 0.523	quality: 0.471 precise: 0.400 difficult: 0.329	poised: 0.483 powerful: 0.434 intellectual: 0.396
accuracy: 0.646 enthusiasm: 0.618 characterized: 0.552 quality: 0.467	durable: 0.594 satisfaction: 0.568 highly: 0.523 consistent: 0.424	quality: 0.471 precise: 0.400 difficult: 0.329 secured: 0.321	poised: 0.483 powerful: 0.434 intellectual: 0.396 suitable: 0.332
accuracy: 0.646 enthusiasm: 0.618 characterized: 0.552 quality: 0.467 preparedness: 0.377	durable: 0.594 satisfaction: 0.568 highly: 0.523 consistent: 0.424 words: 0.371	quality: 0.471 precise: 0.400 difficult: 0.329 secured: 0.321 bright: 0.312	poised: 0.483 powerful: 0.434 intellectual: 0.396 suitable: 0.332 prepared: 0.306
accuracy: 0.646 enthusiasm: 0.618 characterized: 0.552 quality: 0.467 preparedness: 0.377 enthusiastic: 0.349	durable: 0.594 satisfaction: 0.568 highly: 0.523 consistent: 0.424 words: 0.371 enthusiastic: 0.363	quality: 0.471 precise: 0.400 difficult: 0.329 secured: 0.321 bright: 0.312 advanced: 0.304	poised: 0.483 powerful: 0.434 intellectual: 0.396 suitable: 0.332 prepared: 0.306 performance: 0.271
accuracy: 0.646 enthusiasm: 0.618 characterized: 0.552 quality: 0.467 preparedness: 0.377 enthusiastic: 0.349 precise: 0.324	durable: 0.594 satisfaction: 0.568 highly: 0.523 consistent: 0.424 words: 0.371 enthusiastic: 0.363 meticulously: 0.361	quality: 0.471 precise: 0.400 difficult: 0.329 secured: 0.321 bright: 0.312 advanced: 0.304 performance: 0.275	poised: 0.483 powerful: 0.434 intellectual: 0.396 suitable: 0.332 prepared: 0.306 performance: 0.271 role: 0.193
accuracy: 0.646 enthusiasm: 0.618 characterized: 0.552 quality: 0.467 preparedness: 0.377 enthusiastic: 0.349 precise: 0.324 determined: 0.295	durable: 0.594 satisfaction: 0.568 highly: 0.523 consistent: 0.424 words: 0.371 enthusiastic: 0.363 meticulously: 0.361 disciplined: 0.353	quality: 0.471 precise: 0.400 difficult: 0.329 secured: 0.321 bright: 0.312 advanced: 0.304 performance: 0.275 clean: 0.165	poised: 0.483 powerful: 0.434 intellectual: 0.396 suitable: 0.332 prepared: 0.306 performance: 0.271 role: 0.193 bright: 0.192
accuracy: 0.646 enthusiasm: 0.618 characterized: 0.552 quality: 0.467 preparedness: 0.377 enthusiastic: 0.349 precise: 0.324 determined: 0.295 intellectual: 0.282	durable: 0.594 satisfaction: 0.568 highly: 0.523 consistent: 0.424 words: 0.371 enthusiastic: 0.363 meticulously: 0.361 disciplined: 0.353 effort: 0.340	quality: 0.471 precise: 0.400 difficult: 0.329 secured: 0.321 bright: 0.312 advanced: 0.304 performance: 0.275 clean: 0.165 artistic: 0.159	poised: 0.483 powerful: 0.434 intellectual: 0.396 suitable: 0.332 prepared: 0.306 performance: 0.271 role: 0.193 bright: 0.192 professional: 0.153
accuracy: 0.646 enthusiasm: 0.618 characterized: 0.552 quality: 0.467 preparedness: 0.377 enthusiastic: 0.349 precise: 0.324 determined: 0.295 intellectual: 0.282 performance: 0.255	durable: 0.594 satisfaction: 0.568 highly: 0.523 consistent: 0.424 words: 0.371 enthusiastic: 0.363 meticulously: 0.361 disciplined: 0.353 effort: 0.340 rugged: 0.308	quality: 0.471 precise: 0.400 difficult: 0.329 secured: 0.321 bright: 0.312 advanced: 0.304 performance: 0.275 clean: 0.165 artistic: 0.159 elegant: 0.141	poised: 0.483 powerful: 0.434 intellectual: 0.396 suitable: 0.332 prepared: 0.306 performance: 0.271 role: 0.193 bright: 0.192 professional: 0.153 precise: 0.118
accuracy: 0.646 enthusiasm: 0.618 characterized: 0.552 quality: 0.467 preparedness: 0.377 enthusiastic: 0.349 precise: 0.324 determined: 0.295 intellectual: 0.282 performance: 0.255 knowledge: 0.250	durable: 0.594 satisfaction: 0.568 highly: 0.523 consistent: 0.424 words: 0.371 enthusiastic: 0.363 meticulously: 0.361 disciplined: 0.353 effort: 0.340 rugged: 0.308 precise: 0.304	quality: 0.471 precise: 0.400 difficult: 0.329 secured: 0.321 bright: 0.312 advanced: 0.304 performance: 0.275 clean: 0.165 artistic: 0.159 elegant: 0.141 professional: 0.076	poised: 0.483 powerful: 0.434 intellectual: 0.396 suitable: 0.332 prepared: 0.306 performance: 0.271 role: 0.193 bright: 0.192 professional: 0.153 precise: 0.118 highly: 0.118
accuracy: 0.646 enthusiasm: 0.618 characterized: 0.552 quality: 0.467 preparedness: 0.377 enthusiastic: 0.349 precise: 0.324 determined: 0.295 intellectual: 0.282 performance: 0.255 knowledge: 0.250 ensuring: 0.173	durable: 0.594 satisfaction: 0.568 highly: 0.523 consistent: 0.424 words: 0.371 enthusiastic: 0.363 meticulously: 0.361 disciplined: 0.353 effort: 0.340 rugged: 0.308 precise: 0.304 preparedness: 0.297	quality: 0.471 precise: 0.400 difficult: 0.329 secured: 0.321 bright: 0.312 advanced: 0.304 performance: 0.275 clean: 0.165 artistic: 0.159 elegant: 0.141 professional: 0.076 role: 0.064	poised: 0.483 powerful: 0.434 intellectual: 0.396 suitable: 0.332 prepared: 0.306 performance: 0.271 role: 0.193 bright: 0.192 professional: 0.153 precise: 0.118 highly: 0.118 task: 0.115
accuracy: 0.646 enthusiasm: 0.618 characterized: 0.552 quality: 0.467 preparedness: 0.377 enthusiastic: 0.349 precise: 0.324 determined: 0.295 intellectual: 0.282 performance: 0.255 knowledge: 0.250 ensuring: 0.173 role: 0.162	durable: 0.594 satisfaction: 0.568 highly: 0.523 consistent: 0.424 words: 0.371 enthusiastic: 0.363 meticulously: 0.361 disciplined: 0.353 effort: 0.340 rugged: 0.308 precise: 0.304 preparedness: 0.297 prepared: 0.272	quality: 0.471 precise: 0.400 difficult: 0.329 secured: 0.321 bright: 0.312 advanced: 0.304 performance: 0.275 clean: 0.165 artistic: 0.159 elegant: 0.141 professional: 0.076 role: 0.064 engaging: 0.063	poised: 0.483 powerful: 0.434 intellectual: 0.396 suitable: 0.332 prepared: 0.306 performance: 0.271 role: 0.193 bright: 0.192 professional: 0.153 precise: 0.118 highly: 0.118 task: 0.115 skill: 0.107
accuracy: 0.646 enthusiasm: 0.618 characterized: 0.552 quality: 0.467 preparedness: 0.377 enthusiastic: 0.349 precise: 0.324 determined: 0.295 intellectual: 0.282 performance: 0.255 knowledge: 0.250 ensuring: 0.173 role: 0.162 suitable: 0.161	durable: 0.594 satisfaction: 0.568 highly: 0.523 consistent: 0.424 words: 0.371 enthusiastic: 0.363 meticulously: 0.361 disciplined: 0.353 effort: 0.340 rugged: 0.308 precise: 0.304 preparedness: 0.297 prepared: 0.272 suitable: 0.210	quality: 0.471 precise: 0.400 difficult: 0.329 secured: 0.321 bright: 0.312 advanced: 0.304 performance: 0.275 clean: 0.165 artistic: 0.159 elegant: 0.141 professional: 0.076 role: 0.064 engaging: 0.063 confidently: 0.049	poised: 0.483 powerful: 0.434 intellectual: 0.396 suitable: 0.332 prepared: 0.306 performance: 0.271 role: 0.193 bright: 0.192 professional: 0.153 precise: 0.118 highly: 0.118 task: 0.115 skill: 0.107 clean: 0.113
accuracy: 0.646 enthusiasm: 0.618 characterized: 0.552 quality: 0.467 preparedness: 0.377 enthusiastic: 0.349 precise: 0.324 determined: 0.295 intellectual: 0.282 performance: 0.255 knowledge: 0.250 ensuring: 0.173 role: 0.162	durable: 0.594 satisfaction: 0.568 highly: 0.523 consistent: 0.424 words: 0.371 enthusiastic: 0.363 meticulously: 0.361 disciplined: 0.353 effort: 0.340 rugged: 0.308 precise: 0.304 preparedness: 0.297 prepared: 0.272	quality: 0.471 precise: 0.400 difficult: 0.329 secured: 0.321 bright: 0.312 advanced: 0.304 performance: 0.275 clean: 0.165 artistic: 0.159 elegant: 0.141 professional: 0.076 role: 0.064 engaging: 0.063	poised: 0.483 powerful: 0.434 intellectual: 0.396 suitable: 0.332 prepared: 0.306 performance: 0.271 role: 0.193 bright: 0.192 professional: 0.153 precise: 0.118 highly: 0.118 task: 0.115 skill: 0.107

Table 13: Top 20 competence-related words associated with 'Asian'

Llama 3.2 90B	InstructBLIP 7B	InstructBLIP 13B
effort: 0.928	reliable: 1.370	pleasing: 1.157
skills: 0.521	technologically: 1.214	skilled: 0.877
strength: 0.504	advanced: 0.960	determined: 0.648
competence: 0.378	personality: 0.871	talent: 0.648
confidence: 0.333	attitude: 0.802	stable: 0.601
expert: 0.323	accomplished: 0.791	role: 0.530
capable: 0.311	enthusiastic: 0.678	successful: 0.485
diligently: 0.298	chosen: 0.675	confidence: 0.448
confident: 0.297	committed: 0.645	engaging: 0.371
characterized: 0.206	ability: 0.635	confidently: 0.332
determination: 0.194	talents: 0.633	poised: 0.318
poised: 0.172	eager: 0.613	strength: 0.303
graceful: 0.158	efficiency: 0.565	powerful: 0.275
personality: 0.151	satisfied: 0.560	strong: 0.233
enthusiasm: 0.113	prepared: 0.528	efficiently: 0.233
professional: 0.076	hardworking: 0.522	confident: 0.196
confidently: 0.068	achieve: 0.522	proper: 0.177
job: 0.047	determined: 0.513	precise: 0.129
role: 0.034	strong: 0.463	professional: 0.117
elegant: 0.022	effectively: 0.460	easily: 0.101
Pixtral Large	Qwen 2.5 7B	Qwen 2.5 72B
sleekly: 1.603	intently: 0.851	strong: 1.033
· ·		enthusiasm: 0.852
flair: 1.018	effort: 0.688	confidently: 0.582
strong: 0.878	sophisticated: 0.680	engaging: 0.466
•	•	skilled: 0.423
•	confident: 0.530	bright: 0.418
enhanced: 0.533	engaging: 0.454	confident: 0.406
quality: 0.516	artistic: 0.445	fully: 0.381
		•
poised: 0.451	highly: 0.436	skill: 0.361
1	highly: 0.436 performance: 0.270	
attitude: 0.416	performance: 0.270	poised: 0.345
attitude: 0.416 progress: 0.416	performance: 0.270 bright: 0.244	poised: 0.345 intently: 0.338
attitude: 0.416	performance: 0.270 bright: 0.244 speed: 0.243	poised: 0.345
attitude: 0.416 progress: 0.416 strength: 0.408 enthusiasm: 0.366	performance: 0.270 bright: 0.244 speed: 0.243 profession: 0.179	poised: 0.345 intently: 0.338 expertise: 0.328 confidence: 0.248
attitude: 0.416 progress: 0.416 strength: 0.408 enthusiasm: 0.366 confidence: 0.347	performance: 0.270 bright: 0.244 speed: 0.243 profession: 0.179 difficult: 0.165	poised: 0.345 intently: 0.338 expertise: 0.328
attitude: 0.416 progress: 0.416 strength: 0.408 enthusiasm: 0.366 confidence: 0.347 confidently: 0.339	performance: 0.270 bright: 0.244 speed: 0.243 profession: 0.179 difficult: 0.165 role: 0.107	poised: 0.345 intently: 0.338 expertise: 0.328 confidence: 0.248 elegant: 0.238 cleaner: 0.214
attitude: 0.416 progress: 0.416 strength: 0.408 enthusiasm: 0.366 confidence: 0.347 confidently: 0.339 sophisticated: 0.336	performance: 0.270 bright: 0.244 speed: 0.243 profession: 0.179 difficult: 0.165 role: 0.107 cleaner: 0.081	poised: 0.345 intently: 0.338 expertise: 0.328 confidence: 0.248 elegant: 0.238 cleaner: 0.214 highly: 0.203
attitude: 0.416 progress: 0.416 strength: 0.408 enthusiasm: 0.366 confidence: 0.347 confidently: 0.339 sophisticated: 0.336 highly: 0.327	performance: 0.270 bright: 0.244 speed: 0.243 profession: 0.179 difficult: 0.165 role: 0.107 cleaner: 0.081 professional: 0.037	poised: 0.345 intently: 0.338 expertise: 0.328 confidence: 0.248 elegant: 0.238 cleaner: 0.214 highly: 0.203 something: 0.180
attitude: 0.416 progress: 0.416 strength: 0.408 enthusiasm: 0.366 confidence: 0.347 confidently: 0.339 sophisticated: 0.336	performance: 0.270 bright: 0.244 speed: 0.243 profession: 0.179 difficult: 0.165 role: 0.107 cleaner: 0.081	poised: 0.345 intently: 0.338 expertise: 0.328 confidence: 0.248 elegant: 0.238 cleaner: 0.214 highly: 0.203
	effort: 0.928 skills: 0.521 strength: 0.504 competence: 0.378 confidence: 0.333 expert: 0.323 capable: 0.311 diligently: 0.298 confident: 0.297 characterized: 0.206 determination: 0.194 poised: 0.172 graceful: 0.158 personality: 0.151 enthusiasm: 0.113 professional: 0.076 confidently: 0.068 job: 0.047 role: 0.034 elegant: 0.022 Pixtral Large sleekly: 1.603 improvement: 1.255 flair: 1.018 strong: 0.878 powerful: 0.603 elegant: 0.585 enhanced: 0.533 quality: 0.516	effort: 0.928 skills: 0.521 strength: 0.504 competence: 0.378 confidence: 0.333 expert: 0.323 capable: 0.311 diligently: 0.298 confident: 0.297 characterized: 0.206 determination: 0.194 poised: 0.172 graceful: 0.158 personality: 0.151 enthusiasm: 0.113 professional: 0.076 confidently: 0.068 job: 0.047 role: 0.034 elegant: 0.022 Pixtral Large sleekly: 1.603 improvement: 1.255 flair: 1.018 strong: 0.878 powerful: 0.603 elegant: 0.585 enhanced: 0.533 quality: 0.516 reliable: 1.370 technologically: 1.214 advanced: 0.960 personality: 0.871 attitude: 0.802 accomplished: 0.791 enthusiastic: 0.678 chosen: 0.675 committed: 0.645 ability: 0.635 talents: 0.633 eager: 0.613 efficiency: 0.565 satisfied: 0.560 prepared: 0.528 hardworking: 0.522 achieve: 0.522 determined: 0.513 strong: 0.463 effectively: 0.460 Pixtral Large Qwen 2.5 7B intently: 0.851 thoughtful: 0.718 effort: 0.688 sophisticated: 0.680 technological: 0.561 confident: 0.530 engaging: 0.454 artistic: 0.445

Table 14: Top 20 competence-related words associated with 'Black'

Llama 3.2 11B	Llama 3.2 90B	InstructBLIP 7B	InstructBLIP 13B
graceful: 1.675	engaging: 1.480	distinguished: 2.174	expertise: 0.711
thoroughly: 1.246	intricate: 0.892	stable: 0.823	confidence: 0.479
admiration: 0.983	elegant: 0.721	intricate: 0.782	poised: 0.349
thorough: 0.983	abilities: 0.673	intently: 0.656	strength: 0.333
accurate: 0.791	knowledge: 0.451	accurate: 0.589	prepared: 0.326
determined: 0.773	quiet: 0.444	diligently: 0.545	determination: 0.264
enhance: 0.642	learning: 0.436	beauty: 0.461	profession: 0.226
progress: 0.630	role: 0.416	knowledgeable: 0.267	job: 0.139
flair: 0.568	intellectual: 0.351	responsibility: 0.210	confidently: 0.123
elaborate: 0.544	artistic: 0.319	artistic: 0.198	responsible: 0.105
artistic: 0.433	powerful: 0.310	fully: 0.190	performance: 0.104
straightforward: 0.305	responsibility: 0.304	effective: 0.156	suitable: 0.100
personality: 0.257	able: 0.301	learning: 0.151	efficiently: 0.094
elegant: 0.225	confidently: 0.275	enthusiastic: 0.144	graceful: 0.091
respected: 0.190	expert: 0.267	determination: 0.132	powerful: 0.083
meticulously: 0.190	prepared: 0.240	strong: 0.123	diligently: 0.052
quiet: 0.147	something: 0.207	career: 0.121	something: 0.032
competence: 0.142	skills: 0.187	elegant: 0.102	elegant: 0.022
competent: 0.140	fully: 0.181	graceful: 0.094	equipped: -0.019
words: 0.139	preparedness: 0.162	powerful: 0.091	professional: -0.057
words: 0.139 Pixtral 12B	preparedness: 0.162 Pixtral Large	powerful: 0.091 Qwen 2.5 7B	professional: -0.057 Qwen 2.5 72B
Pixtral 12B	Pixtral Large		Qwen 2.5 72B
Pixtral 12B quiet: 1.269		Qwen 2.5 7B	1 *
Pixtral 12B quiet: 1.269 graceful: 1.176	Pixtral Large intricately: 0.934	Qwen 2.5 7B intricate: 1.046 skill: 1.043	Qwen 2.5 72B learning: 1.082 intricate: 0.899
Pixtral 12B quiet: 1.269	Pixtral Large intricately: 0.934 intricate: 0.825 vivid: 0.816	Qwen 2.5 7B intricate: 1.046	Qwen 2.5 72B learning: 1.082 intricate: 0.899 graceful: 0.824
Pixtral 12B quiet: 1.269 graceful: 1.176 beauty: 1.067	Pixtral Large intricately: 0.934 intricate: 0.825 vivid: 0.816 graceful: 0.775	Qwen 2.5 7B intricate: 1.046 skill: 1.043 expertise: 0.981 difficult: 0.903	Qwen 2.5 72B learning: 1.082 intricate: 0.899 graceful: 0.824 intently: 0.819
Pixtral 12B quiet: 1.269 graceful: 1.176 beauty: 1.067 secured: 0.783 effort: 0.765	Pixtral Large intricately: 0.934 intricate: 0.825 vivid: 0.816 graceful: 0.775 learning: 0.482	Qwen 2.5 7B intricate: 1.046 skill: 1.043 expertise: 0.981 difficult: 0.903 highly: 0.686	Qwen 2.5 72B learning: 1.082 intricate: 0.899 graceful: 0.824 intently: 0.819 poised: 0.534
Pixtral 12B quiet: 1.269 graceful: 1.176 beauty: 1.067 secured: 0.783	Pixtral Large intricately: 0.934 intricate: 0.825 vivid: 0.816 graceful: 0.775	Qwen 2.5 7B intricate: 1.046 skill: 1.043 expertise: 0.981 difficult: 0.903 highly: 0.686 graceful: 0.603	Qwen 2.5 72B learning: 1.082 intricate: 0.899 graceful: 0.824 intently: 0.819 poised: 0.534 quality: 0.311
Pixtral 12B quiet: 1.269 graceful: 1.176 beauty: 1.067 secured: 0.783 effort: 0.765 intricately: 0.733 intricate: 0.691	Pixtral Large intricately: 0.934 intricate: 0.825 vivid: 0.816 graceful: 0.775 learning: 0.482 thoughtful: 0.412	Qwen 2.5 7B intricate: 1.046 skill: 1.043 expertise: 0.981 difficult: 0.903 highly: 0.686 graceful: 0.603 confidently: 0.585	Qwen 2.5 72B learning: 1.082 intricate: 0.899 graceful: 0.824 intently: 0.819 poised: 0.534
Pixtral 12B quiet: 1.269 graceful: 1.176 beauty: 1.067 secured: 0.783 effort: 0.765 intricately: 0.733 intricate: 0.691 thoughtful: 0.652	Pixtral Large intricately: 0.934 intricate: 0.825 vivid: 0.816 graceful: 0.775 learning: 0.482 thoughtful: 0.412 words: 0.360 intellectual: 0.352	Qwen 2.5 7B intricate: 1.046 skill: 1.043 expertise: 0.981 difficult: 0.903 highly: 0.686 graceful: 0.603	Qwen 2.5 72B learning: 1.082 intricate: 0.899 graceful: 0.824 intently: 0.819 poised: 0.534 quality: 0.311 expertise: 0.295
Pixtral 12B quiet: 1.269 graceful: 1.176 beauty: 1.067 secured: 0.783 effort: 0.765 intricately: 0.733 intricate: 0.691	Pixtral Large intricately: 0.934 intricate: 0.825 vivid: 0.816 graceful: 0.775 learning: 0.482 thoughtful: 0.412 words: 0.360	Qwen 2.5 7B intricate: 1.046 skill: 1.043 expertise: 0.981 difficult: 0.903 highly: 0.686 graceful: 0.603 confidently: 0.585 precise: 0.389 suitable: 0.318	Qwen 2.5 72B learning: 1.082 intricate: 0.899 graceful: 0.824 intently: 0.819 poised: 0.534 quality: 0.311 expertise: 0.295 artistic: 0.238
Pixtral 12B quiet: 1.269 graceful: 1.176 beauty: 1.067 secured: 0.783 effort: 0.765 intricately: 0.733 intricate: 0.691 thoughtful: 0.652 fully: 0.624	Pixtral Large intricately: 0.934 intricate: 0.825 vivid: 0.816 graceful: 0.775 learning: 0.482 thoughtful: 0.412 words: 0.360 intellectual: 0.352 disciplined: 0.341	Qwen 2.5 7B intricate: 1.046 skill: 1.043 expertise: 0.981 difficult: 0.903 highly: 0.686 graceful: 0.603 confidently: 0.585 precise: 0.389	Qwen 2.5 72B learning: 1.082 intricate: 0.899 graceful: 0.824 intently: 0.819 poised: 0.534 quality: 0.311 expertise: 0.295 artistic: 0.238 confident: 0.154 skilled: 0.048
Pixtral 12B quiet: 1.269 graceful: 1.176 beauty: 1.067 secured: 0.783 effort: 0.765 intricately: 0.733 intricate: 0.691 thoughtful: 0.652 fully: 0.624 dedicated: 0.475	Pixtral Large intricately: 0.934 intricate: 0.825 vivid: 0.816 graceful: 0.775 learning: 0.482 thoughtful: 0.412 words: 0.360 intellectual: 0.352 disciplined: 0.341 characterized: 0.292 skill: 0.250	Qwen 2.5 7B intricate: 1.046 skill: 1.043 expertise: 0.981 difficult: 0.903 highly: 0.686 graceful: 0.603 confidently: 0.585 precise: 0.389 suitable: 0.318 quality: 0.290	Qwen 2.5 72B learning: 1.082 intricate: 0.899 graceful: 0.824 intently: 0.819 poised: 0.534 quality: 0.311 expertise: 0.295 artistic: 0.238 confident: 0.154 skilled: 0.048 technological: -0.001
Pixtral 12B quiet: 1.269 graceful: 1.176 beauty: 1.067 secured: 0.783 effort: 0.765 intricately: 0.733 intricate: 0.691 thoughtful: 0.652 fully: 0.624 dedicated: 0.475 suitable: 0.364	Pixtral Large intricately: 0.934 intricate: 0.825 vivid: 0.816 graceful: 0.775 learning: 0.482 thoughtful: 0.412 words: 0.360 intellectual: 0.352 disciplined: 0.341 characterized: 0.292	Qwen 2.5 7B intricate: 1.046 skill: 1.043 expertise: 0.981 difficult: 0.903 highly: 0.686 graceful: 0.603 confidently: 0.585 precise: 0.389 suitable: 0.318 quality: 0.290 consistent: 0.286	Qwen 2.5 72B learning: 1.082 intricate: 0.899 graceful: 0.824 intently: 0.819 poised: 0.534 quality: 0.311 expertise: 0.295 artistic: 0.238 confident: 0.154 skilled: 0.048
Pixtral 12B quiet: 1.269 graceful: 1.176 beauty: 1.067 secured: 0.783 effort: 0.765 intricately: 0.733 intricate: 0.691 thoughtful: 0.652 fully: 0.624 dedicated: 0.475 suitable: 0.364 skilled: 0.324	Pixtral Large intricately: 0.934 intricate: 0.825 vivid: 0.816 graceful: 0.775 learning: 0.482 thoughtful: 0.412 words: 0.360 intellectual: 0.352 disciplined: 0.341 characterized: 0.292 skill: 0.250 intently: 0.199	Qwen 2.5 7B intricate: 1.046 skill: 1.043 expertise: 0.981 difficult: 0.903 highly: 0.686 graceful: 0.603 confidently: 0.585 precise: 0.389 suitable: 0.318 quality: 0.290 consistent: 0.286 effort: 0.286	Qwen 2.5 72B learning: 1.082 intricate: 0.899 graceful: 0.824 intently: 0.819 poised: 0.534 quality: 0.311 expertise: 0.295 artistic: 0.238 confident: 0.154 skilled: 0.048 technological: -0.001 professional: -0.018 role: -0.025
quiet: 1.269 graceful: 1.176 beauty: 1.067 secured: 0.783 effort: 0.765 intricately: 0.733 intricate: 0.691 thoughtful: 0.652 fully: 0.624 dedicated: 0.475 suitable: 0.364 skilled: 0.324 strength: 0.305 meticulously: 0.280	Pixtral Large intricately: 0.934 intricate: 0.825 vivid: 0.816 graceful: 0.775 learning: 0.482 thoughtful: 0.412 words: 0.360 intellectual: 0.352 disciplined: 0.341 characterized: 0.292 skill: 0.250 intently: 0.199 profession: 0.184 something: 0.151	Qwen 2.5 7B intricate: 1.046 skill: 1.043 expertise: 0.981 difficult: 0.903 highly: 0.686 graceful: 0.603 confidently: 0.585 precise: 0.389 suitable: 0.318 quality: 0.290 consistent: 0.286 effort: 0.286 thoughtful: 0.164 equipped: 0.123	Qwen 2.5 72B learning: 1.082 intricate: 0.899 graceful: 0.824 intently: 0.819 poised: 0.534 quality: 0.311 expertise: 0.295 artistic: 0.238 confident: 0.154 skilled: 0.048 technological: -0.001 professional: -0.018 role: -0.025 something: -0.053
pixtral 12B quiet: 1.269 graceful: 1.176 beauty: 1.067 secured: 0.783 effort: 0.765 intricately: 0.733 intricate: 0.691 thoughtful: 0.652 fully: 0.624 dedicated: 0.475 suitable: 0.364 skilled: 0.324 strength: 0.305	Pixtral Large intricately: 0.934 intricate: 0.825 vivid: 0.816 graceful: 0.775 learning: 0.482 thoughtful: 0.412 words: 0.360 intellectual: 0.352 disciplined: 0.341 characterized: 0.292 skill: 0.250 intently: 0.199 profession: 0.184	intricate: 1.046 skill: 1.043 expertise: 0.981 difficult: 0.903 highly: 0.686 graceful: 0.603 confidently: 0.585 precise: 0.389 suitable: 0.318 quality: 0.290 consistent: 0.286 effort: 0.286 thoughtful: 0.164 equipped: 0.123 fully: 0.074	Qwen 2.5 72B learning: 1.082 intricate: 0.899 graceful: 0.824 intently: 0.819 poised: 0.534 quality: 0.311 expertise: 0.295 artistic: 0.238 confident: 0.154 skilled: 0.048 technological: -0.001 professional: -0.018 role: -0.025
Pixtral 12B quiet: 1.269 graceful: 1.176 beauty: 1.067 secured: 0.783 effort: 0.765 intricately: 0.733 intricate: 0.691 thoughtful: 0.652 fully: 0.624 dedicated: 0.475 suitable: 0.364 skilled: 0.324 strength: 0.305 meticulously: 0.280 job: 0.269	Pixtral Large intricately: 0.934 intricate: 0.825 vivid: 0.816 graceful: 0.775 learning: 0.482 thoughtful: 0.412 words: 0.360 intellectual: 0.352 disciplined: 0.341 characterized: 0.292 skill: 0.250 intently: 0.199 profession: 0.184 something: 0.151 accuracy: 0.149	Qwen 2.5 7B intricate: 1.046 skill: 1.043 expertise: 0.981 difficult: 0.903 highly: 0.686 graceful: 0.603 confidently: 0.585 precise: 0.389 suitable: 0.318 quality: 0.290 consistent: 0.286 effort: 0.286 thoughtful: 0.164 equipped: 0.123	Qwen 2.5 72B learning: 1.082 intricate: 0.899 graceful: 0.824 intently: 0.819 poised: 0.534 quality: 0.311 expertise: 0.295 artistic: 0.238 confident: 0.154 skilled: 0.048 technological: -0.001 professional: -0.018 role: -0.025 something: -0.053 performance: -0.086
Pixtral 12B quiet: 1.269 graceful: 1.176 beauty: 1.067 secured: 0.783 effort: 0.765 intricately: 0.733 intricate: 0.691 thoughtful: 0.652 fully: 0.624 dedicated: 0.475 suitable: 0.364 skilled: 0.324 strength: 0.305 meticulously: 0.280 job: 0.269 performance: 0.248	Pixtral Large intricately: 0.934 intricate: 0.825 vivid: 0.816 graceful: 0.775 learning: 0.482 thoughtful: 0.412 words: 0.360 intellectual: 0.352 disciplined: 0.341 characterized: 0.292 skill: 0.250 intently: 0.199 profession: 0.184 something: 0.151 accuracy: 0.149 determined: 0.094 artistic: 0.054	intricate: 1.046 skill: 1.043 expertise: 0.981 difficult: 0.903 highly: 0.686 graceful: 0.603 confidently: 0.585 precise: 0.389 suitable: 0.318 quality: 0.290 consistent: 0.286 effort: 0.286 thoughtful: 0.164 equipped: 0.123 fully: 0.074 something: 0.066	Qwen 2.5 72B learning: 1.082 intricate: 0.899 graceful: 0.824 intently: 0.819 poised: 0.534 quality: 0.311 expertise: 0.295 artistic: 0.238 confident: 0.154 skilled: 0.048 technological: -0.001 professional: -0.018 role: -0.025 something: -0.053 performance: -0.086 secured: -0.094 bright: -0.124
quiet: 1.269 graceful: 1.176 beauty: 1.067 secured: 0.783 effort: 0.765 intricately: 0.733 intricate: 0.691 thoughtful: 0.652 fully: 0.624 dedicated: 0.475 suitable: 0.364 skilled: 0.324 strength: 0.305 meticulously: 0.280 job: 0.269 performance: 0.248 sophisticated: 0.188	intricately: 0.934 intricate: 0.825 vivid: 0.816 graceful: 0.775 learning: 0.482 thoughtful: 0.412 words: 0.360 intellectual: 0.352 disciplined: 0.341 characterized: 0.292 skill: 0.250 intently: 0.199 profession: 0.184 something: 0.151 accuracy: 0.149 determined: 0.094	intricate: 1.046 skill: 1.043 expertise: 0.981 difficult: 0.903 highly: 0.686 graceful: 0.603 confidently: 0.585 precise: 0.389 suitable: 0.318 quality: 0.290 consistent: 0.286 effort: 0.286 thoughtful: 0.164 equipped: 0.123 fully: 0.074 something: 0.066 sophisticated: 0.055	Qwen 2.5 72B learning: 1.082 intricate: 0.899 graceful: 0.824 intently: 0.819 poised: 0.534 quality: 0.311 expertise: 0.295 artistic: 0.238 confident: 0.154 skilled: 0.048 technological: -0.001 professional: -0.018 role: -0.025 something: -0.053 performance: -0.086 secured: -0.094

Table 15: Top 20 competence-related words associated with 'Indian'

Llama 3.2 11B	Llama 3.2 90B	InstructBLIP 7B	InstructBLIP 13B
character: 1.331	assistant: 1.656	specializing: 1.174	enthusiasm: 1.509
hardworking: 1.315	durable: 1.241	accurately: 0.965	creativity: 1.333
effort: 0.957	knowledgeable: 1.037	versatility: 0.805	precise: 0.755
able: 0.870	responsibility: 1.023	diligently: 0.715	suitable: 0.696
powerful: 0.651	career: 0.978	talented: 0.696	engaging: 0.537
competitive: 0.649	words: 0.939	accuracy: 0.654	secure: 0.449
talents: 0.643	trained: 0.656	efficiency: 0.562	talent: 0.274
versatility: 0.635	difficult: 0.556	consistent: 0.519	skills: 0.174
preparedness: 0.560	progress: 0.540	enthusiasm: 0.512	clean: 0.172
straightforward: 0.524	competitive: 0.518	productive: 0.460	strong: 0.137
durable: 0.506	secured: 0.463	powerful: 0.397	job: 0.102
creativity: 0.497	skills: 0.351	able: 0.388	confident: 0.092
abilities: 0.464	something: 0.239	respected: 0.348	diligently: 0.063
precise: 0.446	enthusiasm: 0.178	sophisticated: 0.339	professional: 0.037
knowledge: 0.434	cleaner: 0.178	fully: 0.316	something: 0.024
ensuring: 0.425	equipped: 0.130	hardworking: 0.256	determination: 0.011
talent: 0.425	performance: 0.099	accomplished: 0.243	prepared: -0.005
reliable: 0.413	responsible: 0.098	expert: 0.232	easily: -0.019
responsibility: 0.408	task: 0.096	profession: 0.226	task: -0.030
efficiency: 0.399	confident: 0.094	responsibility: 0.211	cleaner: -0.072
Pixtral 12B	Pixtral Large	Qwen 2.5 7B	Qwen 2.5 72B
character: 2.002	thoughtfulness: 1.208	poised: 0.941	job: 1.369
flair: 1.449	easily: 1.208	engaging: 0.742	flair: 1.213
job: 0.680	attitude: 1.036	powerful: 0.650	fully: 0.547
		*	•
· ·	flair: 1 001	secured: 0.500	anality, 0.241
confidence: 0.587	flair: 1.001 strong: 0.967	secured: 0.500 prepared: 0.411	quality: 0.541 suitable: 0.527
confidence: 0.587 words: 0.587	strong: 0.967	prepared: 0.411	suitable: 0.527
confidence: 0.587 words: 0.587 knowledge: 0.528	strong: 0.967 competitive: 0.934	prepared: 0.411 effort: 0.324	suitable: 0.527 intellectual: 0.454
confidence: 0.587 words: 0.587 knowledge: 0.528 competence: 0.371	strong: 0.967 competitive: 0.934 satisfaction: 0.660	prepared: 0.411 effort: 0.324 profession: 0.307	suitable: 0.527 intellectual: 0.454 strength: 0.382
confidence: 0.587 words: 0.587 knowledge: 0.528 competence: 0.371 intently: 0.340	strong: 0.967 competitive: 0.934 satisfaction: 0.660 skills: 0.660	prepared: 0.411 effort: 0.324 profession: 0.307 thoughtful: 0.202	suitable: 0.527 intellectual: 0.454 strength: 0.382 durable: 0.269
confidence: 0.587 words: 0.587 knowledge: 0.528 competence: 0.371 intently: 0.340 determination: 0.208	strong: 0.967 competitive: 0.934 satisfaction: 0.660 skills: 0.660 enthusiastic: 0.655	prepared: 0.411 effort: 0.324 profession: 0.307 thoughtful: 0.202 performance: 0.198	suitable: 0.527 intellectual: 0.454 strength: 0.382 durable: 0.269 bright: 0.250
confidence: 0.587 words: 0.587 knowledge: 0.528 competence: 0.371 intently: 0.340 determination: 0.208 poised: 0.208	strong: 0.967 competitive: 0.934 satisfaction: 0.660 skills: 0.660 enthusiastic: 0.655 character: 0.629	prepared: 0.411 effort: 0.324 profession: 0.307 thoughtful: 0.202 performance: 0.198 confident: 0.181	suitable: 0.527 intellectual: 0.454 strength: 0.382 durable: 0.269 bright: 0.250 confidence: 0.222
confidence: 0.587 words: 0.587 knowledge: 0.528 competence: 0.371 intently: 0.340 determination: 0.208 poised: 0.208 elegant: 0.199	strong: 0.967 competitive: 0.934 satisfaction: 0.660 skills: 0.660 enthusiastic: 0.655 character: 0.629 trained: 0.516	prepared: 0.411 effort: 0.324 profession: 0.307 thoughtful: 0.202 performance: 0.198 confident: 0.181 strength: 0.171	suitable: 0.527 intellectual: 0.454 strength: 0.382 durable: 0.269 bright: 0.250 confidence: 0.222 equipped: 0.206
confidence: 0.587 words: 0.587 knowledge: 0.528 competence: 0.371 intently: 0.340 determination: 0.208 poised: 0.208 elegant: 0.199 advanced: 0.194	strong: 0.967 competitive: 0.934 satisfaction: 0.660 skills: 0.660 enthusiastic: 0.655 character: 0.629 trained: 0.516 fully: 0.512	prepared: 0.411 effort: 0.324 profession: 0.307 thoughtful: 0.202 performance: 0.198 confident: 0.181 strength: 0.171 intently: 0.171	suitable: 0.527 intellectual: 0.454 strength: 0.382 durable: 0.269 bright: 0.250 confidence: 0.222 equipped: 0.206 prepared: 0.190
confidence: 0.587 words: 0.587 knowledge: 0.528 competence: 0.371 intently: 0.340 determination: 0.208 poised: 0.208 elegant: 0.199 advanced: 0.194 clean: 0.194	strong: 0.967 competitive: 0.934 satisfaction: 0.660 skills: 0.660 enthusiastic: 0.655 character: 0.629 trained: 0.516 fully: 0.512 enthusiasm: 0.480	prepared: 0.411 effort: 0.324 profession: 0.307 thoughtful: 0.202 performance: 0.198 confident: 0.181 strength: 0.171 intently: 0.171 elegant: 0.168	suitable: 0.527 intellectual: 0.454 strength: 0.382 durable: 0.269 bright: 0.250 confidence: 0.222 equipped: 0.206 prepared: 0.190 technological: 0.176
confidence: 0.587 words: 0.587 knowledge: 0.528 competence: 0.371 intently: 0.340 determination: 0.208 poised: 0.208 elegant: 0.199 advanced: 0.194 clean: 0.194 confident: 0.176	strong: 0.967 competitive: 0.934 satisfaction: 0.660 skills: 0.660 enthusiastic: 0.655 character: 0.629 trained: 0.516 fully: 0.512 enthusiasm: 0.480 strength: 0.313	prepared: 0.411 effort: 0.324 profession: 0.307 thoughtful: 0.202 performance: 0.198 confident: 0.181 strength: 0.171 intently: 0.171 elegant: 0.168 consistent: 0.102	suitable: 0.527 intellectual: 0.454 strength: 0.382 durable: 0.269 bright: 0.250 confidence: 0.222 equipped: 0.206 prepared: 0.190 technological: 0.176 clean: 0.150
confidence: 0.587 words: 0.587 knowledge: 0.528 competence: 0.371 intently: 0.340 determination: 0.208 poised: 0.208 elegant: 0.199 advanced: 0.194 clean: 0.194 confident: 0.176 cleaner: 0.175	strong: 0.967 competitive: 0.934 satisfaction: 0.660 skills: 0.660 enthusiastic: 0.655 character: 0.629 trained: 0.516 fully: 0.512 enthusiasm: 0.480 strength: 0.313 determination: 0.264	prepared: 0.411 effort: 0.324 profession: 0.307 thoughtful: 0.202 performance: 0.198 confident: 0.181 strength: 0.171 intently: 0.171 elegant: 0.168 consistent: 0.102 task: 0.076	suitable: 0.527 intellectual: 0.454 strength: 0.382 durable: 0.269 bright: 0.250 confidence: 0.222 equipped: 0.206 prepared: 0.190 technological: 0.176 clean: 0.150 sophisticated: 0.132
confidence: 0.587 words: 0.587 knowledge: 0.528 competence: 0.371 intently: 0.340 determination: 0.208 poised: 0.208 elegant: 0.199 advanced: 0.194 clean: 0.194 confident: 0.176 cleaner: 0.175 fully: 0.160	strong: 0.967 competitive: 0.934 satisfaction: 0.660 skills: 0.660 enthusiastic: 0.655 character: 0.629 trained: 0.516 fully: 0.512 enthusiasm: 0.480 strength: 0.313 determination: 0.264 performance: 0.204	prepared: 0.411 effort: 0.324 profession: 0.307 thoughtful: 0.202 performance: 0.198 confident: 0.181 strength: 0.171 intently: 0.171 elegant: 0.168 consistent: 0.102 task: 0.076 advanced: 0.068	suitable: 0.527 intellectual: 0.454 strength: 0.382 durable: 0.269 bright: 0.250 confidence: 0.222 equipped: 0.206 prepared: 0.190 technological: 0.176 clean: 0.150 sophisticated: 0.132 confident: 0.112
confidence: 0.587 words: 0.587 knowledge: 0.528 competence: 0.371 intently: 0.340 determination: 0.208 poised: 0.208 elegant: 0.199 advanced: 0.194 clean: 0.194 confident: 0.176 cleaner: 0.175 fully: 0.160 equipped: 0.149	strong: 0.967 competitive: 0.934 satisfaction: 0.660 skills: 0.660 enthusiastic: 0.655 character: 0.629 trained: 0.516 fully: 0.512 enthusiasm: 0.480 strength: 0.313 determination: 0.264 performance: 0.204 secured: 0.169	prepared: 0.411 effort: 0.324 profession: 0.307 thoughtful: 0.202 performance: 0.198 confident: 0.181 strength: 0.171 intently: 0.171 elegant: 0.168 consistent: 0.102 task: 0.076 advanced: 0.068 professional: 0.050	suitable: 0.527 intellectual: 0.454 strength: 0.382 durable: 0.269 bright: 0.250 confidence: 0.222 equipped: 0.206 prepared: 0.190 technological: 0.176 clean: 0.150 sophisticated: 0.132 confident: 0.112 elegant: 0.096
confidence: 0.587 words: 0.587 knowledge: 0.528 competence: 0.371 intently: 0.340 determination: 0.208 poised: 0.208 elegant: 0.199 advanced: 0.194 clean: 0.194 confident: 0.176 cleaner: 0.175 fully: 0.160 equipped: 0.149 role: 0.113	strong: 0.967 competitive: 0.934 satisfaction: 0.660 skills: 0.660 enthusiastic: 0.655 character: 0.629 trained: 0.516 fully: 0.512 enthusiasm: 0.480 strength: 0.313 determination: 0.264 performance: 0.204 secured: 0.169 confidence: 0.140	prepared: 0.411 effort: 0.324 profession: 0.307 thoughtful: 0.202 performance: 0.198 confident: 0.181 strength: 0.171 intently: 0.171 elegant: 0.168 consistent: 0.102 task: 0.076 advanced: 0.068 professional: 0.050 role: 0.047	suitable: 0.527 intellectual: 0.454 strength: 0.382 durable: 0.269 bright: 0.250 confidence: 0.222 equipped: 0.206 prepared: 0.190 technological: 0.176 clean: 0.150 sophisticated: 0.132 confident: 0.112 elegant: 0.096 intently: 0.089
confidence: 0.587 words: 0.587 knowledge: 0.528 competence: 0.371 intently: 0.340 determination: 0.208 poised: 0.208 elegant: 0.199 advanced: 0.194 clean: 0.194 confident: 0.176 cleaner: 0.175 fully: 0.160 equipped: 0.149	strong: 0.967 competitive: 0.934 satisfaction: 0.660 skills: 0.660 enthusiastic: 0.655 character: 0.629 trained: 0.516 fully: 0.512 enthusiasm: 0.480 strength: 0.313 determination: 0.264 performance: 0.204 secured: 0.169	prepared: 0.411 effort: 0.324 profession: 0.307 thoughtful: 0.202 performance: 0.198 confident: 0.181 strength: 0.171 intently: 0.171 elegant: 0.168 consistent: 0.102 task: 0.076 advanced: 0.068 professional: 0.050	suitable: 0.527 intellectual: 0.454 strength: 0.382 durable: 0.269 bright: 0.250 confidence: 0.222 equipped: 0.206 prepared: 0.190 technological: 0.176 clean: 0.150 sophisticated: 0.132 confident: 0.112 elegant: 0.096

Table 16: Top 20 competence-related words associated with 'Latino'

Llama 3.2 11B	Llama 3.2 90B	InstructBLIP 7B	InstructBLIP 13B
attractive: 1.098	able: 1.142	technological: 1.095	artistic: 1.214
highly: 1.098	highly: 0.929	character: 1.095	beauty: 1.008
characterized: 1.039	intricate: 0.913	intricate: 0.966	accurate: 0.827
functioning: 0.999	bright: 0.794	graceful: 0.533	secure: 0.639
triumphant: 0.906	quality: 0.695	improve: 0.457	stable: 0.446
advanced: 0.818	dedicated: 0.681	productive: 0.451	strong: 0.396
career: 0.818	quiet: 0.636	artistic: 0.407	expertise: 0.356
flair: 0.715	creativity: 0.579	beauty: 0.399	poised: 0.356
intricate: 0.624	performance: 0.574	intently: 0.358	graceful: 0.339
precise: 0.584	preparedness: 0.562	able: 0.320	powerful: 0.313
engaging: 0.584	knowledge: 0.472	performs: 0.308	role: 0.219
versatility: 0.525	personality: 0.447	automatic: 0.281	skill: 0.204
competent: 0.464	fully: 0.386	strength: 0.243	something: 0.196
elegant: 0.457	beauty: 0.355	competent: 0.243	elegant: 0.185
productive: 0.455	artistic: 0.341	versatility: 0.212	performance: 0.142
sophisticated: 0.391	determined: 0.316	functioning: 0.205	effectively: 0.133
abilities: 0.354	characterized: 0.310	powerful: 0.166	task: 0.128
difficult: 0.311	elegant: 0.306	precise: 0.144	confidently: 0.047
beauty: 0.298	profession: 0.305	engaging: 0.123	determination: 0.008
proper: 0.298	expert: 0.289	competitive: 0.113	diligently: -0.019
Pixtral 12B	Pixtral Large	Qwen 2.5 7B	Qwen 2.5 72B
intricate: 0.870	character: 0.945	characterized: 1.165	skills: 1.326
secured: 0.679	secured: 0.932	fully: 0.789	secured: 1.231
secured: 0.679 words: 0.593		fully: 0.789 intricate: 0.676	secured: 1.231 intricate: 0.844
words: 0.593	secured: 0.932 diligently: 0.749 intricate: 0.723		
	diligently: 0.749	intricate: 0.676	intricate: 0.844 disciplined: 0.841
words: 0.593 knowledge: 0.534	diligently: 0.749 intricate: 0.723	intricate: 0.676 speed: 0.580	intricate: 0.844
words: 0.593 knowledge: 0.534 competence: 0.510	diligently: 0.749 intricate: 0.723 progress: 0.562	intricate: 0.676 speed: 0.580 elegant: 0.449	intricate: 0.844 disciplined: 0.841 confidently: 0.834
words: 0.593 knowledge: 0.534 competence: 0.510 intellectual: 0.455	diligently: 0.749 intricate: 0.723 progress: 0.562 learning: 0.498	intricate: 0.676 speed: 0.580 elegant: 0.449 skill: 0.379	intricate: 0.844 disciplined: 0.841 confidently: 0.834 powerful: 0.507
words: 0.593 knowledge: 0.534 competence: 0.510 intellectual: 0.455 enthusiasm: 0.446	diligently: 0.749 intricate: 0.723 progress: 0.562 learning: 0.498 fully: 0.445	intricate: 0.676 speed: 0.580 elegant: 0.449 skill: 0.379 strength: 0.285	intricate: 0.844 disciplined: 0.841 confidently: 0.834 powerful: 0.507 confidence: 0.459
words: 0.593 knowledge: 0.534 competence: 0.510 intellectual: 0.455 enthusiasm: 0.446 triumphant: 0.423 intricately: 0.320	diligently: 0.749 intricate: 0.723 progress: 0.562 learning: 0.498 fully: 0.445 dedicated: 0.442	intricate: 0.676 speed: 0.580 elegant: 0.449 skill: 0.379 strength: 0.285 thoughtful: 0.178	intricate: 0.844 disciplined: 0.841 confidently: 0.834 powerful: 0.507 confidence: 0.459 highly: 0.414
words: 0.593 knowledge: 0.534 competence: 0.510 intellectual: 0.455 enthusiasm: 0.446 triumphant: 0.423	diligently: 0.749 intricate: 0.723 progress: 0.562 learning: 0.498 fully: 0.445 dedicated: 0.442 secure: 0.375	intricate: 0.676 speed: 0.580 elegant: 0.449 skill: 0.379 strength: 0.285 thoughtful: 0.178 confident: 0.142	intricate: 0.844 disciplined: 0.841 confidently: 0.834 powerful: 0.507 confidence: 0.459 highly: 0.414 profession: 0.241
words: 0.593 knowledge: 0.534 competence: 0.510 intellectual: 0.455 enthusiasm: 0.446 triumphant: 0.423 intricately: 0.320 profession: 0.219	diligently: 0.749 intricate: 0.723 progress: 0.562 learning: 0.498 fully: 0.445 dedicated: 0.442 secure: 0.375 sophisticated: 0.374	intricate: 0.676 speed: 0.580 elegant: 0.449 skill: 0.379 strength: 0.285 thoughtful: 0.178 confident: 0.142 confidently: 0.052	intricate: 0.844 disciplined: 0.841 confidently: 0.834 powerful: 0.507 confidence: 0.459 highly: 0.414 profession: 0.241 graceful: 0.140
words: 0.593 knowledge: 0.534 competence: 0.510 intellectual: 0.455 enthusiasm: 0.446 triumphant: 0.423 intricately: 0.320 profession: 0.219 confidence: 0.217	diligently: 0.749 intricate: 0.723 progress: 0.562 learning: 0.498 fully: 0.445 dedicated: 0.442 secure: 0.375 sophisticated: 0.374 intricately: 0.365	intricate: 0.676 speed: 0.580 elegant: 0.449 skill: 0.379 strength: 0.285 thoughtful: 0.178 confident: 0.142 confidently: 0.052 advanced: 0.044 role: 0.008	intricate: 0.844 disciplined: 0.841 confidently: 0.834 powerful: 0.507 confidence: 0.459 highly: 0.414 profession: 0.241 graceful: 0.140 strength: 0.097
words: 0.593 knowledge: 0.534 competence: 0.510 intellectual: 0.455 enthusiasm: 0.446 triumphant: 0.423 intricately: 0.320 profession: 0.219 confidence: 0.217 bright: 0.176	diligently: 0.749 intricate: 0.723 progress: 0.562 learning: 0.498 fully: 0.445 dedicated: 0.442 secure: 0.375 sophisticated: 0.374 intricately: 0.365 consistent: 0.354	intricate: 0.676 speed: 0.580 elegant: 0.449 skill: 0.379 strength: 0.285 thoughtful: 0.178 confident: 0.142 confidently: 0.052 advanced: 0.044	intricate: 0.844 disciplined: 0.841 confidently: 0.834 powerful: 0.507 confidence: 0.459 highly: 0.414 profession: 0.241 graceful: 0.140 strength: 0.097 artistic: 0.091
words: 0.593 knowledge: 0.534 competence: 0.510 intellectual: 0.455 enthusiasm: 0.446 triumphant: 0.423 intricately: 0.320 profession: 0.219 confidence: 0.217 bright: 0.176 quality: 0.167	diligently: 0.749 intricate: 0.723 progress: 0.562 learning: 0.498 fully: 0.445 dedicated: 0.442 secure: 0.375 sophisticated: 0.374 intricately: 0.365 consistent: 0.354 rugged: 0.312	intricate: 0.676 speed: 0.580 elegant: 0.449 skill: 0.379 strength: 0.285 thoughtful: 0.178 confident: 0.142 confidently: 0.052 advanced: 0.044 role: 0.008 equipped: -0.018	intricate: 0.844 disciplined: 0.841 confidently: 0.834 powerful: 0.507 confidence: 0.459 highly: 0.414 profession: 0.241 graceful: 0.140 strength: 0.097 artistic: 0.091 poised: 0.070
words: 0.593 knowledge: 0.534 competence: 0.510 intellectual: 0.455 enthusiasm: 0.446 triumphant: 0.423 intricately: 0.320 profession: 0.219 confidence: 0.217 bright: 0.176 quality: 0.167 poised: 0.115	diligently: 0.749 intricate: 0.723 progress: 0.562 learning: 0.498 fully: 0.445 dedicated: 0.442 secure: 0.375 sophisticated: 0.374 intricately: 0.365 consistent: 0.354 rugged: 0.312 thoughtful: 0.276	intricate: 0.676 speed: 0.580 elegant: 0.449 skill: 0.379 strength: 0.285 thoughtful: 0.178 confident: 0.142 confidently: 0.052 advanced: 0.044 role: 0.008 equipped: -0.018 professional: -0.027	intricate: 0.844 disciplined: 0.841 confidently: 0.834 powerful: 0.507 confidence: 0.459 highly: 0.414 profession: 0.241 graceful: 0.140 strength: 0.097 artistic: 0.091 poised: 0.070 elegant: 0.070
words: 0.593 knowledge: 0.534 competence: 0.510 intellectual: 0.455 enthusiasm: 0.446 triumphant: 0.423 intricately: 0.320 profession: 0.219 confidence: 0.217 bright: 0.176 quality: 0.167 poised: 0.115 effort: 0.115	diligently: 0.749 intricate: 0.723 progress: 0.562 learning: 0.498 fully: 0.445 dedicated: 0.442 secure: 0.375 sophisticated: 0.374 intricately: 0.365 consistent: 0.354 rugged: 0.312 thoughtful: 0.276 enhance: 0.276	intricate: 0.676 speed: 0.580 elegant: 0.449 skill: 0.379 strength: 0.285 thoughtful: 0.178 confident: 0.142 confidently: 0.052 advanced: 0.044 role: 0.008 equipped: -0.018 professional: -0.027 something: -0.029	intricate: 0.844 disciplined: 0.841 confidently: 0.834 powerful: 0.507 confidence: 0.459 highly: 0.414 profession: 0.241 graceful: 0.140 strength: 0.097 artistic: 0.091 poised: 0.070 elegant: 0.070 equipped: 0.003
words: 0.593 knowledge: 0.534 competence: 0.510 intellectual: 0.455 enthusiasm: 0.446 triumphant: 0.423 intricately: 0.320 profession: 0.219 confidence: 0.217 bright: 0.176 quality: 0.167 poised: 0.115 effort: 0.115 intently: 0.113	diligently: 0.749 intricate: 0.723 progress: 0.562 learning: 0.498 fully: 0.445 dedicated: 0.442 secure: 0.375 sophisticated: 0.374 intricately: 0.365 consistent: 0.354 rugged: 0.312 thoughtful: 0.276 enhance: 0.276 enthusiasm: 0.216	intricate: 0.676 speed: 0.580 elegant: 0.449 skill: 0.379 strength: 0.285 thoughtful: 0.178 confident: 0.142 confidently: 0.052 advanced: 0.044 role: 0.008 equipped: -0.018 professional: -0.027 something: -0.029 graceful: -0.120	intricate: 0.844 disciplined: 0.841 confidently: 0.834 powerful: 0.507 confidence: 0.459 highly: 0.414 profession: 0.241 graceful: 0.140 strength: 0.097 artistic: 0.091 poised: 0.070 elegant: 0.070 quality: 0.070
words: 0.593 knowledge: 0.534 competence: 0.510 intellectual: 0.455 enthusiasm: 0.446 triumphant: 0.423 intricately: 0.320 profession: 0.219 confidence: 0.217 bright: 0.176 quality: 0.167 poised: 0.115 effort: 0.115 intently: 0.113 role: 0.093	diligently: 0.749 intricate: 0.723 progress: 0.562 learning: 0.498 fully: 0.445 dedicated: 0.442 secure: 0.375 sophisticated: 0.374 intricately: 0.365 consistent: 0.354 rugged: 0.312 thoughtful: 0.276 enhance: 0.276 enthusiasm: 0.216 meticulous: 0.213	intricate: 0.676 speed: 0.580 elegant: 0.449 skill: 0.379 strength: 0.285 thoughtful: 0.178 confident: 0.142 confidently: 0.052 advanced: 0.044 role: 0.008 equipped: -0.018 professional: -0.027 something: -0.029 graceful: -0.120 clean: -0.137	intricate: 0.844 disciplined: 0.841 confidently: 0.834 powerful: 0.507 confidence: 0.459 highly: 0.414 profession: 0.241 graceful: 0.140 strength: 0.097 artistic: 0.091 poised: 0.070 elegant: 0.070 quality: 0.070 equipped: 0.003 sophisticated: -0.023

Table 17: Top 20 competence-related words associated with 'Middle Eastern'

Llama 3.2 11B	Llama 3.2 90B	InstructBLIP 7B	InstructBLIP 13B
achieving: 1.296	achieve: 1.268	insights: 1.433	abilities: 1.739
triumphant: 1.104	abilities: 1.083	highly: 1.308	talent: 0.680
rugged: 1.016	committed: 0.946	thoroughly: 1.130	equipped: 0.441
meticulously: 0.625	enthusiasm: 0.579	effort: 1.020	strong: 0.390
committed: 0.612	strong: 0.563	bright: 0.908	cleaner: 0.372
capability: 0.593	intellectual: 0.531	responsibility: 0.870	suitable: 0.364
secure: 0.575	determined: 0.512	versatile: 0.821	responsible: 0.328
productive: 0.559	responsible: 0.484	proficient: 0.805	ensuring: 0.325
effort: 0.519	effort: 0.479	consistent: 0.763	skill: 0.281
accurate: 0.519	secured: 0.405	achieve: 0.638	clean: 0.236
successful: 0.519	diligently: 0.375	accurate: 0.571	proper: 0.208
ensuring: 0.491	efficiency: 0.335	poised: 0.554	precise: 0.161
able: 0.454	prepared: 0.328	expert: 0.535	poised: 0.127
stable: 0.419	personality: 0.327	competitive: 0.443	effectively: 0.127
responsibility: 0.403	competent: 0.318	talents: 0.441	diligently: 0.127
sophisticated: 0.393	bright: 0.298	equipped: 0.440	engaging: 0.113
equipped: 0.375	progress: 0.290	formidable: 0.433	determined: 0.095
efficient: 0.326	job: 0.276	suitable: 0.405	graceful: 0.092
capabilities: 0.326	profession: 0.245	effective: 0.401	skills: 0.089
capaciffics. 0.520	profession. 0.2 .c		
assistant: 0.317	personality: 0.241	progress: 0.387	professional: 0.076
•	1 ^		professional: 0.076 Qwen 2.5 72B
assistant: 0.317 Pixtral 12B	personality: 0.241	progress: 0.387	1 -
assistant: 0.317	personality: 0.241 Pixtral Large	progress: 0.387 Qwen 2.5 7B	Qwen 2.5 72B
assistant: 0.317 Pixtral 12B strong: 1.351	personality: 0.241 Pixtral Large efficiency: 1.432 intelligence: 1.285	progress: 0.387 Qwen 2.5 7B graceful: 0.461	Qwen 2.5 72B strong: 0.994
assistant: 0.317 Pixtral 12B strong: 1.351 skills: 1.088 proper: 0.896	personality: 0.241 Pixtral Large efficiency: 1.432 intelligence: 1.285 knowledgeable: 1.169	progress: 0.387 Qwen 2.5 7B graceful: 0.461 intently: 0.407	Qwen 2.5 72B strong: 0.994 effort: 0.916
assistant: 0.317 Pixtral 12B strong: 1.351 skills: 1.088 proper: 0.896 precise: 0.481	personality: 0.241 Pixtral Large efficiency: 1.432 intelligence: 1.285	progress: 0.387 Qwen 2.5 7B graceful: 0.461 intently: 0.407 advanced: 0.304 consistent: 0.297	Qwen 2.5 72B strong: 0.994 effort: 0.916 durable: 0.520 confidence: 0.432
assistant: 0.317 Pixtral 12B strong: 1.351 skills: 1.088 proper: 0.896	personality: 0.241 Pixtral Large efficiency: 1.432 intelligence: 1.285 knowledgeable: 1.169 rugged: 0.963	progress: 0.387 Qwen 2.5 7B graceful: 0.461 intently: 0.407 advanced: 0.304	Qwen 2.5 72B strong: 0.994 effort: 0.916 durable: 0.520
assistant: 0.317 Pixtral 12B strong: 1.351 skills: 1.088 proper: 0.896 precise: 0.481 quality: 0.469	personality: 0.241 Pixtral Large efficiency: 1.432 intelligence: 1.285 knowledgeable: 1.169 rugged: 0.963 vivid: 0.782	progress: 0.387 Qwen 2.5 7B graceful: 0.461 intently: 0.407 advanced: 0.304 consistent: 0.297 equipped: 0.228	Qwen 2.5 72B strong: 0.994 effort: 0.916 durable: 0.520 confidence: 0.432 sophisticated: 0.409
assistant: 0.317 Pixtral 12B strong: 1.351 skills: 1.088 proper: 0.896 precise: 0.481 quality: 0.469 determination: 0.458	personality: 0.241 Pixtral Large efficiency: 1.432 intelligence: 1.285 knowledgeable: 1.169 rugged: 0.963 vivid: 0.782 trained: 0.741 durable: 0.718	progress: 0.387 Qwen 2.5 7B graceful: 0.461 intently: 0.407 advanced: 0.304 consistent: 0.297 equipped: 0.228 task: 0.226	Qwen 2.5 72B strong: 0.994 effort: 0.916 durable: 0.520 confidence: 0.432 sophisticated: 0.409 prepared: 0.387
assistant: 0.317 Pixtral 12B strong: 1.351 skills: 1.088 proper: 0.896 precise: 0.481 quality: 0.469 determination: 0.458 fully: 0.458	personality: 0.241 Pixtral Large efficiency: 1.432 intelligence: 1.285 knowledgeable: 1.169 rugged: 0.963 vivid: 0.782 trained: 0.741	progress: 0.387 Qwen 2.5 7B graceful: 0.461 intently: 0.407 advanced: 0.304 consistent: 0.297 equipped: 0.228 task: 0.226 clean: 0.218	Qwen 2.5 72B strong: 0.994 effort: 0.916 durable: 0.520 confidence: 0.432 sophisticated: 0.409 prepared: 0.387 suitable: 0.377
assistant: 0.317 Pixtral 12B strong: 1.351 skills: 1.088 proper: 0.896 precise: 0.481 quality: 0.469 determination: 0.458 fully: 0.458 technological: 0.413	personality: 0.241 Pixtral Large efficiency: 1.432 intelligence: 1.285 knowledgeable: 1.169 rugged: 0.963 vivid: 0.782 trained: 0.741 durable: 0.718 technological: 0.705	progress: 0.387 Qwen 2.5 7B graceful: 0.461 intently: 0.407 advanced: 0.304 consistent: 0.297 equipped: 0.228 task: 0.226 clean: 0.218 powerful: 0.207	Qwen 2.5 72B strong: 0.994 effort: 0.916 durable: 0.520 confidence: 0.432 sophisticated: 0.409 prepared: 0.387 suitable: 0.377 precise: 0.356
assistant: 0.317 Pixtral 12B strong: 1.351 skills: 1.088 proper: 0.896 precise: 0.481 quality: 0.469 determination: 0.458 fully: 0.458 technological: 0.413 skilled: 0.394	personality: 0.241 Pixtral Large efficiency: 1.432 intelligence: 1.285 knowledgeable: 1.169 rugged: 0.963 vivid: 0.782 trained: 0.741 durable: 0.718 technological: 0.705 dedicated: 0.634 job: 0.634	progress: 0.387 Qwen 2.5 7B graceful: 0.461 intently: 0.407 advanced: 0.304 consistent: 0.297 equipped: 0.228 task: 0.226 clean: 0.218 powerful: 0.207 prepared: 0.162	Qwen 2.5 72B strong: 0.994 effort: 0.916 durable: 0.520 confidence: 0.432 sophisticated: 0.409 prepared: 0.387 suitable: 0.377 precise: 0.356 engaging: 0.344
assistant: 0.317 Pixtral 12B strong: 1.351 skills: 1.088 proper: 0.896 precise: 0.481 quality: 0.469 determination: 0.458 fully: 0.458 technological: 0.413 skilled: 0.394 prepared: 0.305 intellectual: 0.284	personality: 0.241 Pixtral Large efficiency: 1.432 intelligence: 1.285 knowledgeable: 1.169 rugged: 0.963 vivid: 0.782 trained: 0.741 durable: 0.718 technological: 0.705 dedicated: 0.634 job: 0.634 thorough: 0.622	graceful: 0.461 intently: 0.407 advanced: 0.304 consistent: 0.297 equipped: 0.228 task: 0.226 clean: 0.218 powerful: 0.207 prepared: 0.162 cleaner: 0.154 something: 0.092	Qwen 2.5 72B strong: 0.994 effort: 0.916 durable: 0.520 confidence: 0.432 sophisticated: 0.409 prepared: 0.387 suitable: 0.377 precise: 0.356 engaging: 0.344 skilled: 0.306 clean: 0.199
assistant: 0.317 Pixtral 12B strong: 1.351 skills: 1.088 proper: 0.896 precise: 0.481 quality: 0.469 determination: 0.458 fully: 0.458 technological: 0.413 skilled: 0.394 prepared: 0.305	personality: 0.241 Pixtral Large efficiency: 1.432 intelligence: 1.285 knowledgeable: 1.169 rugged: 0.963 vivid: 0.782 trained: 0.741 durable: 0.718 technological: 0.705 dedicated: 0.634 job: 0.634	progress: 0.387 Qwen 2.5 7B graceful: 0.461 intently: 0.407 advanced: 0.304 consistent: 0.297 equipped: 0.228 task: 0.226 clean: 0.218 powerful: 0.207 prepared: 0.162 cleaner: 0.154	Qwen 2.5 72B strong: 0.994 effort: 0.916 durable: 0.520 confidence: 0.432 sophisticated: 0.409 prepared: 0.387 suitable: 0.377 precise: 0.356 engaging: 0.344 skilled: 0.306
assistant: 0.317 Pixtral 12B strong: 1.351 skills: 1.088 proper: 0.896 precise: 0.481 quality: 0.469 determination: 0.458 fully: 0.458 technological: 0.413 skilled: 0.394 prepared: 0.305 intellectual: 0.284 improvement: 0.252	personality: 0.241 Pixtral Large efficiency: 1.432 intelligence: 1.285 knowledgeable: 1.169 rugged: 0.963 vivid: 0.782 trained: 0.741 durable: 0.718 technological: 0.705 dedicated: 0.634 job: 0.634 thorough: 0.622 proper: 0.609	progress: 0.387 Qwen 2.5 7B graceful: 0.461 intently: 0.407 advanced: 0.304 consistent: 0.297 equipped: 0.228 task: 0.226 clean: 0.218 powerful: 0.207 prepared: 0.162 cleaner: 0.154 something: 0.092 sophisticated: 0.066	gwen 2.5 72B strong: 0.994 effort: 0.916 durable: 0.520 confidence: 0.432 sophisticated: 0.409 prepared: 0.387 suitable: 0.377 precise: 0.356 engaging: 0.344 skilled: 0.306 clean: 0.199 highly: 0.164
assistant: 0.317 Pixtral 12B strong: 1.351 skills: 1.088 proper: 0.896 precise: 0.481 quality: 0.469 determination: 0.458 fully: 0.458 technological: 0.413 skilled: 0.394 prepared: 0.305 intellectual: 0.284 improvement: 0.252 something: 0.222	personality: 0.241 Pixtral Large efficiency: 1.432 intelligence: 1.285 knowledgeable: 1.169 rugged: 0.963 vivid: 0.782 trained: 0.741 durable: 0.718 technological: 0.705 dedicated: 0.634 job: 0.634 thorough: 0.622 proper: 0.609 skilled: 0.460	progress: 0.387 Qwen 2.5 7B graceful: 0.461 intently: 0.407 advanced: 0.304 consistent: 0.297 equipped: 0.228 task: 0.226 clean: 0.218 powerful: 0.207 prepared: 0.162 cleaner: 0.154 something: 0.092 sophisticated: 0.066 bright: 0.001	gwen 2.5 72B strong: 0.994 effort: 0.916 durable: 0.520 confidence: 0.432 sophisticated: 0.409 prepared: 0.387 suitable: 0.377 precise: 0.356 engaging: 0.344 skilled: 0.306 clean: 0.199 highly: 0.164 task: 0.131
assistant: 0.317 Pixtral 12B strong: 1.351 skills: 1.088 proper: 0.896 precise: 0.481 quality: 0.469 determination: 0.458 fully: 0.458 technological: 0.413 skilled: 0.394 prepared: 0.305 intellectual: 0.284 improvement: 0.252 something: 0.222 triumphant: 0.211	personality: 0.241 Pixtral Large efficiency: 1.432 intelligence: 1.285 knowledgeable: 1.169 rugged: 0.963 vivid: 0.782 trained: 0.741 durable: 0.718 technological: 0.705 dedicated: 0.634 job: 0.634 thorough: 0.622 proper: 0.609 skilled: 0.460 suitable: 0.449	progress: 0.387 Qwen 2.5 7B graceful: 0.461 intently: 0.407 advanced: 0.304 consistent: 0.297 equipped: 0.228 task: 0.226 clean: 0.218 powerful: 0.207 prepared: 0.162 cleaner: 0.154 something: 0.092 sophisticated: 0.066 bright: 0.001 strength: -0.008	Qwen 2.5 72B strong: 0.994 effort: 0.916 durable: 0.520 confidence: 0.432 sophisticated: 0.409 prepared: 0.387 suitable: 0.377 precise: 0.356 engaging: 0.344 skilled: 0.306 clean: 0.199 highly: 0.164 task: 0.131 elegant: 0.123
assistant: 0.317 Pixtral 12B strong: 1.351 skills: 1.088 proper: 0.896 precise: 0.481 quality: 0.469 determination: 0.458 fully: 0.458 technological: 0.413 skilled: 0.394 prepared: 0.305 intellectual: 0.284 improvement: 0.252 something: 0.222 triumphant: 0.211 clean: 0.202	personality: 0.241 Pixtral Large efficiency: 1.432 intelligence: 1.285 knowledgeable: 1.169 rugged: 0.963 vivid: 0.782 trained: 0.741 durable: 0.718 technological: 0.705 dedicated: 0.634 job: 0.634 thorough: 0.622 proper: 0.609 skilled: 0.460 suitable: 0.449 preparedness: 0.428	progress: 0.387 Qwen 2.5 7B graceful: 0.461 intently: 0.407 advanced: 0.304 consistent: 0.297 equipped: 0.228 task: 0.226 clean: 0.218 powerful: 0.207 prepared: 0.162 cleaner: 0.154 something: 0.092 sophisticated: 0.066 bright: 0.001 strength: -0.008 professional: -0.011 secured: -0.042	Qwen 2.5 72B strong: 0.994 effort: 0.916 durable: 0.520 confidence: 0.432 sophisticated: 0.409 prepared: 0.387 suitable: 0.377 precise: 0.356 engaging: 0.344 skilled: 0.306 clean: 0.199 highly: 0.164 task: 0.131 elegant: 0.123 fully: 0.119 cleaner: 0.113
assistant: 0.317 Pixtral 12B strong: 1.351 skills: 1.088 proper: 0.896 precise: 0.481 quality: 0.469 determination: 0.458 fully: 0.458 technological: 0.413 skilled: 0.394 prepared: 0.305 intellectual: 0.284 improvement: 0.252 something: 0.222 triumphant: 0.211 clean: 0.202 learning: 0.191	personality: 0.241 Pixtral Large efficiency: 1.432 intelligence: 1.285 knowledgeable: 1.169 rugged: 0.963 vivid: 0.782 trained: 0.741 durable: 0.718 technological: 0.705 dedicated: 0.634 job: 0.634 thorough: 0.622 proper: 0.609 skilled: 0.460 suitable: 0.449 preparedness: 0.428 enhance: 0.419	progress: 0.387 Qwen 2.5 7B graceful: 0.461 intently: 0.407 advanced: 0.304 consistent: 0.297 equipped: 0.228 task: 0.226 clean: 0.218 powerful: 0.207 prepared: 0.162 cleaner: 0.154 something: 0.092 sophisticated: 0.066 bright: 0.001 strength: -0.008 professional: -0.011	Qwen 2.5 72B strong: 0.994 effort: 0.916 durable: 0.520 confidence: 0.432 sophisticated: 0.409 prepared: 0.387 suitable: 0.377 precise: 0.356 engaging: 0.344 skilled: 0.306 clean: 0.199 highly: 0.164 task: 0.131 elegant: 0.123 fully: 0.119 cleaner: 0.113 something: 0.044
assistant: 0.317 Pixtral 12B strong: 1.351 skills: 1.088 proper: 0.896 precise: 0.481 quality: 0.469 determination: 0.458 fully: 0.458 technological: 0.413 skilled: 0.394 prepared: 0.305 intellectual: 0.284 improvement: 0.252 something: 0.222 triumphant: 0.211 clean: 0.202 learning: 0.191 advanced: 0.181	personality: 0.241 Pixtral Large efficiency: 1.432 intelligence: 1.285 knowledgeable: 1.169 rugged: 0.963 vivid: 0.782 trained: 0.741 durable: 0.718 technological: 0.705 dedicated: 0.634 job: 0.634 thorough: 0.622 proper: 0.609 skilled: 0.460 suitable: 0.449 preparedness: 0.428 enhance: 0.419 accuracy: 0.378	progress: 0.387 Qwen 2.5 7B graceful: 0.461 intently: 0.407 advanced: 0.304 consistent: 0.297 equipped: 0.228 task: 0.226 clean: 0.218 powerful: 0.207 prepared: 0.162 cleaner: 0.154 something: 0.092 sophisticated: 0.066 bright: 0.001 strength: -0.008 professional: -0.011 secured: -0.042 quality: -0.056	Qwen 2.5 72B strong: 0.994 effort: 0.916 durable: 0.520 confidence: 0.432 sophisticated: 0.409 prepared: 0.387 suitable: 0.377 precise: 0.356 engaging: 0.344 skilled: 0.306 clean: 0.199 highly: 0.164 task: 0.131 elegant: 0.123 fully: 0.119 cleaner: 0.113

Table 18: Top 20 competence-related words associated with 'White(race)'

Llama 3.2 11B	Llama 3.2 90B	InstructBLIP 7B	InstructBLIP 13B
gratitude: 1.122	mutual: 1.157	rugged: 1.587	good: 1.130
prayerful: 0.953	suitable: 1.087	trust: 1.172	natural: 0.915
lively: 0.881	enjoys: 0.894	active: 0.751	secure: 0.469
trusting: 0.733	enjoying: 0.648	hot: 0.587	welcoming: 0.214
appreciation: 0.688	safe: 0.572	prayerful: 0.500	comfortable: 0.201
active: 0.581	friendly: 0.454	skillful: 0.395	enjoying: 0.193
enjoys: 0.491	warmth: 0.312	cheerful: 0.350	confident: 0.128
loving: 0.444	gentle: 0.281	secure: 0.312	taste: 0.080
cheerful: 0.318	calmness: 0.250	enjoyable: 0.307	delicious: 0.049
intimate: 0.301	knowledgeable: 0.234	lively: 0.307	strong: 0.004
welcoming: 0.292	beauty: 0.233	friendly: 0.242	neutral: -0.020
trust: 0.287	trust: 0.210	enjoying: 0.234	prayerful: -0.062
admiration: 0.259	respect: 0.194	strong: 0.231	manner: -0.064
respect: 0.259	lively: 0.194	quality: 0.227	appealing: -0.067
trustworthy: 0.259	confident: 0.179	smooth: 0.212	suitable: -0.285
enjoying: 0.222	secured: 0.157	passionate: 0.211	kind: -0.435
respected: 0.203	warm: 0.119	suitable: 0.193	fresh: -0.455
authenticity: 0.203	committed: 0.113	committed: 0.186	stylish: -0.574
attired: 0.200	kind: 0.093	actively: 0.186	pleasing: -0.657
gentle: 0.191	stylish: 0.070	committed: 0.183	actively: -0.279
genue. 0.171	5ty 11511. 0.070	committed. 0.103	actively0.279
Pixtral 12B	Pixtral Large	Qwen 2.5 7B	Qwen 2.5 72B
		1	
Pixtral 12B	Pixtral Large	Qwen 2.5 7B	Qwen 2.5 72B
Pixtral 12B solid: 1.442	Pixtral Large heated: 0.733	Qwen 2.5 7B hot: 1.089	Qwen 2.5 72B solid: 1.083
Pixtral 12B solid: 1.442 heated: 1.094	Pixtral Large heated: 0.733 respect: 0.581	Qwen 2.5 7B hot: 1.089 respect: 1.014	Qwen 2.5 72B solid: 1.083 pleasant: 0.960
Pixtral 12B solid: 1.442 heated: 1.094 enjoying: 0.855 comfort: 0.480	Pixtral Large heated: 0.733 respect: 0.581 friendliness: 0.581	Qwen 2.5 7B hot: 1.089 respect: 1.014 solid: 0.767	Qwen 2.5 72B solid: 1.083 pleasant: 0.960 respect: 0.919
Pixtral 12B solid: 1.442 heated: 1.094 enjoying: 0.855	Pixtral Large heated: 0.733 respect: 0.581 friendliness: 0.581 enjoying: 0.329 suitable: 0.287	Qwen 2.5 7B hot: 1.089 respect: 1.014 solid: 0.767 active: 0.745	Qwen 2.5 72B solid: 1.083 pleasant: 0.960 respect: 0.919 enjoying: 0.767
Pixtral 12B solid: 1.442 heated: 1.094 enjoying: 0.855 comfort: 0.480 pleasant: 0.464	heated: 0.733 respect: 0.581 friendliness: 0.581 enjoying: 0.329 suitable: 0.287 friendly: 0.250	Qwen 2.5 7B hot: 1.089 respect: 1.014 solid: 0.767 active: 0.745 gentle: 0.382	Qwen 2.5 72B solid: 1.083 pleasant: 0.960 respect: 0.919 enjoying: 0.767 heated: 0.597 neutral: 0.545
Pixtral 12B solid: 1.442 heated: 1.094 enjoying: 0.855 comfort: 0.480 pleasant: 0.464 gentle: 0.454	Pixtral Large heated: 0.733 respect: 0.581 friendliness: 0.581 enjoying: 0.329 suitable: 0.287	Qwen 2.5 7B hot: 1.089 respect: 1.014 solid: 0.767 active: 0.745 gentle: 0.382 confident: 0.231	Qwen 2.5 72B solid: 1.083 pleasant: 0.960 respect: 0.919 enjoying: 0.767 heated: 0.597
Pixtral 12B solid: 1.442 heated: 1.094 enjoying: 0.855 comfort: 0.480 pleasant: 0.464 gentle: 0.454 grayish: 0.442	heated: 0.733 respect: 0.581 friendliness: 0.581 enjoying: 0.329 suitable: 0.287 friendly: 0.250 welcoming: 0.203	Qwen 2.5 7B hot: 1.089 respect: 1.014 solid: 0.767 active: 0.745 gentle: 0.382 confident: 0.231 neutral: 0.225	Qwen 2.5 72B solid: 1.083 pleasant: 0.960 respect: 0.919 enjoying: 0.767 heated: 0.597 neutral: 0.545 strong: 0.498
Pixtral 12B solid: 1.442 heated: 1.094 enjoying: 0.855 comfort: 0.480 pleasant: 0.464 gentle: 0.454 grayish: 0.442 beauty: 0.378	heated: 0.733 respect: 0.581 friendliness: 0.581 enjoying: 0.329 suitable: 0.287 friendly: 0.250 welcoming: 0.203 thoughtful: 0.177	Qwen 2.5 7B hot: 1.089 respect: 1.014 solid: 0.767 active: 0.745 gentle: 0.382 confident: 0.231 neutral: 0.225 thoughtful: 0.173	wen 2.5 72B solid: 1.083 pleasant: 0.960 respect: 0.919 enjoying: 0.767 heated: 0.597 neutral: 0.545 strong: 0.498 comfortable: 0.396 kind: 0.375
Pixtral 12B solid: 1.442 heated: 1.094 enjoying: 0.855 comfort: 0.480 pleasant: 0.464 gentle: 0.454 grayish: 0.442 beauty: 0.378 enthusiastic: 0.357	heated: 0.733 respect: 0.581 friendliness: 0.581 enjoying: 0.329 suitable: 0.287 friendly: 0.250 welcoming: 0.203 thoughtful: 0.177 enthusiastic: 0.174	hot: 1.089 respect: 1.014 solid: 0.767 active: 0.745 gentle: 0.382 confident: 0.231 neutral: 0.225 thoughtful: 0.173 kind: 0.169	solid: 1.083 pleasant: 0.960 respect: 0.919 enjoying: 0.767 heated: 0.597 neutral: 0.545 strong: 0.498 comfortable: 0.396
Pixtral 12B solid: 1.442 heated: 1.094 enjoying: 0.855 comfort: 0.480 pleasant: 0.464 gentle: 0.454 grayish: 0.442 beauty: 0.378 enthusiastic: 0.357 prayerful: 0.317	Pixtral Large heated: 0.733 respect: 0.581 friendliness: 0.581 enjoying: 0.329 suitable: 0.287 friendly: 0.250 welcoming: 0.203 thoughtful: 0.177 enthusiastic: 0.174 attitude: 0.130	hot: 1.089 respect: 1.014 solid: 0.767 active: 0.745 gentle: 0.382 confident: 0.231 neutral: 0.225 thoughtful: 0.173 kind: 0.169 actively: 0.141	wen 2.5 72B solid: 1.083 pleasant: 0.960 respect: 0.919 enjoying: 0.767 heated: 0.597 neutral: 0.545 strong: 0.498 comfortable: 0.396 kind: 0.375 welcoming: 0.346 natural: 0.265
Pixtral 12B solid: 1.442 heated: 1.094 enjoying: 0.855 comfort: 0.480 pleasant: 0.464 gentle: 0.454 grayish: 0.442 beauty: 0.378 enthusiastic: 0.357 prayerful: 0.317 manner: 0.288 secured: 0.287	heated: 0.733 respect: 0.581 friendliness: 0.581 enjoying: 0.329 suitable: 0.287 friendly: 0.250 welcoming: 0.203 thoughtful: 0.177 enthusiastic: 0.174 attitude: 0.130 pleasant: 0.113	hot: 1.089 respect: 1.014 solid: 0.767 active: 0.745 gentle: 0.382 confident: 0.231 neutral: 0.225 thoughtful: 0.173 kind: 0.169 actively: 0.141 stylish: 0.137	Qwen 2.5 72B solid: 1.083 pleasant: 0.960 respect: 0.919 enjoying: 0.767 heated: 0.597 neutral: 0.545 strong: 0.498 comfortable: 0.396 kind: 0.375 welcoming: 0.346
Pixtral 12B solid: 1.442 heated: 1.094 enjoying: 0.855 comfort: 0.480 pleasant: 0.464 gentle: 0.454 grayish: 0.442 beauty: 0.378 enthusiastic: 0.357 prayerful: 0.317 manner: 0.288 secured: 0.287 lively: 0.280	heated: 0.733 respect: 0.581 friendliness: 0.581 enjoying: 0.329 suitable: 0.287 friendly: 0.250 welcoming: 0.203 thoughtful: 0.177 enthusiastic: 0.174 attitude: 0.130 pleasant: 0.113 warm: 0.110 secured: 0.106	Qwen 2.5 7B hot: 1.089 respect: 1.014 solid: 0.767 active: 0.745 gentle: 0.382 confident: 0.231 neutral: 0.225 thoughtful: 0.173 kind: 0.169 actively: 0.141 stylish: 0.137 natural: 0.10789 smooth: -0.010	wen 2.5 72B solid: 1.083 pleasant: 0.960 respect: 0.919 enjoying: 0.767 heated: 0.597 neutral: 0.545 strong: 0.498 comfortable: 0.396 kind: 0.375 welcoming: 0.346 natural: 0.265 gentle: 0.253
Pixtral 12B solid: 1.442 heated: 1.094 enjoying: 0.855 comfort: 0.480 pleasant: 0.464 gentle: 0.454 grayish: 0.442 beauty: 0.378 enthusiastic: 0.357 prayerful: 0.317 manner: 0.288 secured: 0.287	heated: 0.733 respect: 0.581 friendliness: 0.581 enjoying: 0.329 suitable: 0.287 friendly: 0.250 welcoming: 0.203 thoughtful: 0.177 enthusiastic: 0.174 attitude: 0.130 pleasant: 0.113 warm: 0.110	Qwen 2.5 7B hot: 1.089 respect: 1.014 solid: 0.767 active: 0.745 gentle: 0.382 confident: 0.231 neutral: 0.225 thoughtful: 0.173 kind: 0.169 actively: 0.141 stylish: 0.137 natural: 0.10789	Qwen 2.5 72B solid: 1.083 pleasant: 0.960 respect: 0.919 enjoying: 0.767 heated: 0.597 neutral: 0.545 strong: 0.498 comfortable: 0.396 kind: 0.375 welcoming: 0.346 natural: 0.265 gentle: 0.253 fine: 0.219
Pixtral 12B solid: 1.442 heated: 1.094 enjoying: 0.855 comfort: 0.480 pleasant: 0.464 gentle: 0.454 grayish: 0.442 beauty: 0.378 enthusiastic: 0.357 prayerful: 0.317 manner: 0.288 secured: 0.287 lively: 0.280 welcoming: 0.269	heated: 0.733 respect: 0.581 friendliness: 0.581 enjoying: 0.329 suitable: 0.287 friendly: 0.250 welcoming: 0.203 thoughtful: 0.177 enthusiastic: 0.174 attitude: 0.130 pleasant: 0.113 warm: 0.110 secured: 0.106 lively: 0.096	Qwen 2.5 7B hot: 1.089 respect: 1.014 solid: 0.767 active: 0.745 gentle: 0.382 confident: 0.231 neutral: 0.225 thoughtful: 0.173 kind: 0.169 actively: 0.141 stylish: 0.137 natural: 0.10789 smooth: -0.010 frendly: -0.025 quality: -0.029	Qwen 2.5 72B solid: 1.083 pleasant: 0.960 respect: 0.919 enjoying: 0.767 heated: 0.597 neutral: 0.545 strong: 0.498 comfortable: 0.396 kind: 0.375 welcoming: 0.346 natural: 0.265 gentle: 0.253 fine: 0.219 secured: 0.121
Pixtral 12B solid: 1.442 heated: 1.094 enjoying: 0.855 comfort: 0.480 pleasant: 0.464 gentle: 0.454 grayish: 0.442 beauty: 0.378 enthusiastic: 0.357 prayerful: 0.317 manner: 0.288 secured: 0.287 lively: 0.280 welcoming: 0.269 respect: 0.258	heated: 0.733 respect: 0.581 friendliness: 0.581 enjoying: 0.329 suitable: 0.287 friendly: 0.250 welcoming: 0.203 thoughtful: 0.177 enthusiastic: 0.174 attitude: 0.130 pleasant: 0.113 warm: 0.110 secured: 0.106 lively: 0.096 cheerful: 0.068	Qwen 2.5 7B hot: 1.089 respect: 1.014 solid: 0.767 active: 0.745 gentle: 0.382 confident: 0.231 neutral: 0.225 thoughtful: 0.173 kind: 0.169 actively: 0.141 stylish: 0.137 natural: 0.10789 smooth: -0.010 frendly: -0.025	solid: 1.083 pleasant: 0.960 respect: 0.919 enjoying: 0.767 heated: 0.597 neutral: 0.545 strong: 0.498 comfortable: 0.396 kind: 0.375 welcoming: 0.346 natural: 0.265 gentle: 0.253 fine: 0.219 secured: 0.121 warm: 0.095
Pixtral 12B solid: 1.442 heated: 1.094 enjoying: 0.855 comfort: 0.480 pleasant: 0.464 gentle: 0.454 grayish: 0.442 beauty: 0.378 enthusiastic: 0.357 prayerful: 0.317 manner: 0.288 secured: 0.287 lively: 0.280 welcoming: 0.269 respect: 0.258 friendly: 0.249	heated: 0.733 respect: 0.581 friendliness: 0.581 enjoying: 0.329 suitable: 0.287 friendly: 0.250 welcoming: 0.203 thoughtful: 0.177 enthusiastic: 0.174 attitude: 0.130 pleasant: 0.113 warm: 0.110 secured: 0.106 lively: 0.096 cheerful: 0.068 confident: 0.064 actively: 0.047	Not: 1.089 respect: 1.014 solid: 0.767 active: 0.745 gentle: 0.382 confident: 0.231 neutral: 0.225 thoughtful: 0.173 kind: 0.169 actively: 0.141 stylish: 0.137 natural: 0.10789 smooth: -0.010 frendly: -0.025 quality: -0.029 bright: -0.060 plain: -0.073	Qwen 2.5 72B solid: 1.083 pleasant: 0.960 respect: 0.919 enjoying: 0.767 heated: 0.597 neutral: 0.545 strong: 0.498 comfortable: 0.396 kind: 0.375 welcoming: 0.346 natural: 0.265 gentle: 0.253 fine: 0.219 secured: 0.121 warm: 0.095 confident: 0.045
Pixtral 12B solid: 1.442 heated: 1.094 enjoying: 0.855 comfort: 0.480 pleasant: 0.464 gentle: 0.454 grayish: 0.442 beauty: 0.378 enthusiastic: 0.357 prayerful: 0.317 manner: 0.288 secured: 0.287 lively: 0.280 welcoming: 0.269 respect: 0.258 friendly: 0.249 warm: 0.222	heated: 0.733 respect: 0.581 friendliness: 0.581 enjoying: 0.329 suitable: 0.287 friendly: 0.250 welcoming: 0.203 thoughtful: 0.177 enthusiastic: 0.174 attitude: 0.130 pleasant: 0.113 warm: 0.110 secured: 0.106 lively: 0.096 cheerful: 0.068 confident: 0.064	Not: 1.089 respect: 1.014 solid: 0.767 active: 0.745 gentle: 0.382 confident: 0.231 neutral: 0.225 thoughtful: 0.173 kind: 0.169 actively: 0.141 stylish: 0.137 natural: 0.10789 smooth: -0.010 frendly: -0.025 quality: -0.029 bright: -0.060	Qwen 2.5 72B solid: 1.083 pleasant: 0.960 respect: 0.919 enjoying: 0.767 heated: 0.597 neutral: 0.545 strong: 0.498 comfortable: 0.396 kind: 0.375 welcoming: 0.346 natural: 0.265 gentle: 0.253 fine: 0.219 secured: 0.121 warm: 0.095 confident: 0.045 plain: 0.017

Table 19: Top 20 warmth-related words associated with 'blue'

Llama 3.2 90B	InstructBLIP 7B	InstructBLIP 13B
quality: 0.854	authenticity: 0.848	safely: 0.727
fine: 0.854	respectful: 0.848	comfort: 0.701
intimate: 0.783	pleasant: 0.778	beauty: 0.668
good: 0.783	bright: 0.659	fresh: 0.642
bright: 0.716	appreciation: 0.642	kind: 0.525
fresh: 0.631	respected: 0.585	strong: 0.494
comfort: 0.631	loving: 0.585	pleasing: 0.418
respectful: 0.561	hot: 0.585	delicious: 0.353
lively: 0.516	enthusiastic: 0.494	safe: 0.353
welcoming: 0.479	reliable: 0.363	actively: 0.324
solid: 0.337	fresh: 0.332	suitable: 0.322
warmth: 0.302	comfort: 0.315	smooth: 0.206
natural: 0.233	natural: 0.264	plain: 0.090
comfortable: 0.194	talented: 0.207	stylish: 0.086
confident: 0.186	stylish: 0.199	manner: -0.029
strong: 0.179	committed: 0.152	enjoying: -0.049
friendliness: 0.125	safe: 0.136	welcoming: -0.049
manner: 0.125	knowledgeable: 0.094	secure: -0.057
passionate: 0.124	_	confident: -0.091
warm: 0.114	comfortable: 0.066	appealing: -0.107
Pixtral Large	Qwen 2.5 7B	Qwen 2.5 72B
bright: 0.938	strong: 0.576	secure: 1.090
	_	lightly: 0.954
•		warmth: 0.727
· ·		bright: 0.724
		strong: 0.476
	•	lively: 0.319
	· •	friendly: 0.302
•		cheerful: 0.295
strong: 0.516	cheerful: 0.328	cneeriui: 0.295
strong: 0.516 appealing: 0.398	cheerful: 0.328 friendly: 0.254	
appealing: 0.398	friendly: 0.254	warm: 0.295
appealing: 0.398 active: 0.398	friendly: 0.254 secured: 0.237	warm: 0.295 secured: 0.294
appealing: 0.398 active: 0.398 comfortable: 0.311	friendly: 0.254 secured: 0.237 suitable: 0.235	warm: 0.295 secured: 0.294 tasting: 0.197
appealing: 0.398 active: 0.398 comfortable: 0.311 attitude: 0.280	friendly: 0.254 secured: 0.237 suitable: 0.235 fresh: 0.213	warm: 0.295 secured: 0.294 tasting: 0.197 fresh: 0.193
appealing: 0.398 active: 0.398 comfortable: 0.311 attitude: 0.280 comfort: 0.213	friendly: 0.254 secured: 0.237 suitable: 0.235 fresh: 0.213 fine: 0.197	warm: 0.295 secured: 0.294 tasting: 0.197 fresh: 0.193 good: 0.188
appealing: 0.398 active: 0.398 comfortable: 0.311 attitude: 0.280 comfort: 0.213 secure: 0.202	friendly: 0.254 secured: 0.237 suitable: 0.235 fresh: 0.213 fine: 0.197 manner: 0.181	warm: 0.295 secured: 0.294 tasting: 0.197 fresh: 0.193 good: 0.188 welcoming: 0.179
appealing: 0.398 active: 0.398 comfortable: 0.311 attitude: 0.280 comfort: 0.213 secure: 0.202 good: 0.179	friendly: 0.254 secured: 0.237 suitable: 0.235 fresh: 0.213 fine: 0.197 manner: 0.181 thoughtfulness: 0.174	warm: 0.295 secured: 0.294 tasting: 0.197 fresh: 0.193 good: 0.188 welcoming: 0.179 gentle: 0.116
appealing: 0.398 active: 0.398 comfortable: 0.311 attitude: 0.280 comfort: 0.213 secure: 0.202 good: 0.179 thoughtfulness: 0.172	friendly: 0.254 secured: 0.237 suitable: 0.235 fresh: 0.213 fine: 0.197 manner: 0.181 thoughtfulness: 0.174 solid: 0.171	warm: 0.295 secured: 0.294 tasting: 0.197 fresh: 0.193 good: 0.188 welcoming: 0.179 gentle: 0.116 confident: 0.106
appealing: 0.398 active: 0.398 comfortable: 0.311 attitude: 0.280 comfort: 0.213 secure: 0.202 good: 0.179 thoughtfulness: 0.172 cheerful: 0.162	friendly: 0.254 secured: 0.237 suitable: 0.235 fresh: 0.213 fine: 0.197 manner: 0.181 thoughtfulness: 0.174 solid: 0.171 quality: 0.158	warm: 0.295 secured: 0.294 tasting: 0.197 fresh: 0.193 good: 0.188 welcoming: 0.179 gentle: 0.116 confident: 0.106 kind: 0.090
appealing: 0.398 active: 0.398 comfortable: 0.311 attitude: 0.280 comfort: 0.213 secure: 0.202 good: 0.179 thoughtfulness: 0.172	friendly: 0.254 secured: 0.237 suitable: 0.235 fresh: 0.213 fine: 0.197 manner: 0.181 thoughtfulness: 0.174 solid: 0.171	warm: 0.295 secured: 0.294 tasting: 0.197 fresh: 0.193 good: 0.188 welcoming: 0.179 gentle: 0.116 confident: 0.106
	quality: 0.854 fine: 0.854 intimate: 0.783 good: 0.783 bright: 0.716 fresh: 0.631 comfort: 0.631 respectful: 0.561 lively: 0.516 welcoming: 0.479 solid: 0.337 warmth: 0.302 natural: 0.233 comfortable: 0.194 confident: 0.186 strong: 0.179 friendliness: 0.125 manner: 0.125 passionate: 0.124 warm: 0.114 Pixtral Large bright: 0.938 safely: 0.830 affectionately: 0.702 solid: 0.633 hot: 0.587 warmth: 0.550 respectful: 0.550	quality: 0.854 fine: 0.854 intimate: 0.783 good: 0.783 bright: 0.716 fresh: 0.631 comfort: 0.631 respectful: 0.561 lively: 0.516 welcoming: 0.479 solid: 0.337 warmth: 0.302 natural: 0.233 comfortable: 0.194 confident: 0.186 strong: 0.179 friendliness: 0.125 manner: 0.125 passionate: 0.124 warm: 0.114 Pixtral Large Quality: 0.848 respectful: 0.848 pleasant: 0.778 bright: 0.659 appreciation: 0.642 respected: 0.585 loving: 0.585 hot: 0.585 enthusiastic: 0.494 reliable: 0.363 fresh: 0.332 comfort: 0.315 natural: 0.264 talented: 0.207 stylish: 0.199 committed: 0.152 safe: 0.136 knowledgeable: 0.094 prayerful: 0.083 comfortable: 0.066 Qwen 2.5 7B

Table 20: Top 20 warmth-related words associated with 'red'

Llama 3.2 11B	Llama 3.2 90B	InstructBLIP 7B	InstructBLIP 13B
pure: 1.603	fluffy: 0.874	harmonious: 0.997	friendly: 1.005
safely: 0.987	tasting: 0.645	taste: 0.582	bright: 0.980
skillfully: 0.925	fine: 0.289	skillful: 0.389	comfortable: 0.565
attractive: 0.796	smooth: 0.267	plain: 0.309	prayerful: 0.565
safe: 0.755	calmness: 0.230	manner: 0.281	appreciation: 0.427
talented: 0.626	delicious: 0.230	appealing: 0.252	taste: 0.407
qualities: 0.603	actively: 0.214	smooth: 0.245	plain: 0.342
fluffy: 0.571	slicked: 0.174	safely: 0.195	stylish: 0.329
fine: 0.568	committed: 0.093	delicious: 0.180	smooth: 0.311
secure: 0.545	neutral: 0.077	welcoming: 0.145	neutral: 0.159
knowledgeable: 0.539	plain: 0.047	neutral: 0.142	appealing: 0.156
slicked: 0.483	strong: 0.022	warm: 0.142	manner: 0.087
tasting: 0.466	secured: 0.012	good: 0.057	safe: 0.079
trusted: 0.381	trust: -0.033	friendly: 0.028	pleasing: 0.029
rugged: 0.323	kind: -0.041	suitable: 0.013	confident: -0.042
appealing: 0.298	gentle: -0.074	quality: -0.010	suitable: -0.113
calmness: 0.294	attired: -0.091	respect: -0.032	actively: -0.121
reliable: 0.216	stylish: -0.102	strong: -0.045	enjoying: -0.159
plain: 0.199	passionate: -0.115	lively: -0.046	welcoming: -0.185
respectful: 0.199	manner: -0.124	attitude: -0.060	kind: -0.293
Pixtral 12B	Pixtral Large	Qwen 2.5 7B	Qwen 2.5 72B
safe: 0.528	calmness: 1.362	fluffy: 0.868	slicked: 1.583
fine: 0.499	beauty: 0.777	smooth: 0.757	fluffy: 0.980
fluffy: 0.477	knowledgeable: 0.732	fine: 0.489	smooth: 0.835
grayish: 0.461	slicked: 0.709	heated: 0.342	suitable: 0.583
fluffy: 0.420			
fluffy: 0.429	fluffy: 0.677	tasting: 0.242	nice: 0.467
strong: 0.376	fluffy: 0.677 tasting: 0.677	tasting: 0.242 welcoming: 0.226	nice: 0.467 active: 0.261
	1		
strong: 0.376	tasting: 0.677	welcoming: 0.226	active: 0.261
strong: 0.376 smooth: 0.370	tasting: 0.677 fine: 0.437	welcoming: 0.226 good: 0.190	active: 0.261 tasting: 0.204
strong: 0.376 smooth: 0.370 intimate: 0.335	tasting: 0.677 fine: 0.437 quality: 0.385	welcoming: 0.226 good: 0.190 plain: 0.174	active: 0.261 tasting: 0.204 manner: 0.187
strong: 0.376 smooth: 0.370 intimate: 0.335 secure: 0.277	tasting: 0.677 fine: 0.437 quality: 0.385 gentle: 0.353	welcoming: 0.226 good: 0.190 plain: 0.174 comfort: 0.119	active: 0.261 tasting: 0.204 manner: 0.187 quality: 0.184
strong: 0.376 smooth: 0.370 intimate: 0.335 secure: 0.277 quality: 0.260	tasting: 0.677 fine: 0.437 quality: 0.385 gentle: 0.353 smooth: 0.331	welcoming: 0.226 good: 0.190 plain: 0.174 comfort: 0.119 natural: 0.050	active: 0.261 tasting: 0.204 manner: 0.187 quality: 0.184 stylish: 0.102
strong: 0.376 smooth: 0.370 intimate: 0.335 secure: 0.277 quality: 0.260 lightly: 0.255	tasting: 0.677 fine: 0.437 quality: 0.385 gentle: 0.353 smooth: 0.331 prayerful: 0.303	welcoming: 0.226 good: 0.190 plain: 0.174 comfort: 0.119 natural: 0.050 manner: -0.019	active: 0.261 tasting: 0.204 manner: 0.187 quality: 0.184 stylish: 0.102 actively: 0.077
strong: 0.376 smooth: 0.370 intimate: 0.335 secure: 0.277 quality: 0.260 lightly: 0.255 natural: 0.165	tasting: 0.677 fine: 0.437 quality: 0.385 gentle: 0.353 smooth: 0.331 prayerful: 0.303 thoughtfulness: 0.246	welcoming: 0.226 good: 0.190 plain: 0.174 comfort: 0.119 natural: 0.050 manner: -0.019 neutral: -0.048	active: 0.261 tasting: 0.204 manner: 0.187 quality: 0.184 stylish: 0.102 actively: 0.077 plain: 0.042
strong: 0.376 smooth: 0.370 intimate: 0.335 secure: 0.277 quality: 0.260 lightly: 0.255 natural: 0.165 stylish: 0.157	tasting: 0.677 fine: 0.437 quality: 0.385 gentle: 0.353 smooth: 0.331 prayerful: 0.303 thoughtfulness: 0.246 enthusiastic: 0.218	welcoming: 0.226 good: 0.190 plain: 0.174 comfort: 0.119 natural: 0.050 manner: -0.019 neutral: -0.048 cheerful: -0.058	active: 0.261 tasting: 0.204 manner: 0.187 quality: 0.184 stylish: 0.102 actively: 0.077 plain: 0.042 natural: -0.113
strong: 0.376 smooth: 0.370 intimate: 0.335 secure: 0.277 quality: 0.260 lightly: 0.255 natural: 0.165 stylish: 0.157 neutral: 0.145	tasting: 0.677 fine: 0.437 quality: 0.385 gentle: 0.353 smooth: 0.331 prayerful: 0.303 thoughtfulness: 0.246 enthusiastic: 0.218 strong: 0.198	welcoming: 0.226 good: 0.190 plain: 0.174 comfort: 0.119 natural: 0.050 manner: -0.019 neutral: -0.048 cheerful: -0.058 suitable: -0.058	active: 0.261 tasting: 0.204 manner: 0.187 quality: 0.184 stylish: 0.102 actively: 0.077 plain: 0.042 natural: -0.113 comfortable: -0.134
strong: 0.376 smooth: 0.370 intimate: 0.335 secure: 0.277 quality: 0.260 lightly: 0.255 natural: 0.165 stylish: 0.157 neutral: 0.145 respectful: 0.096	tasting: 0.677 fine: 0.437 quality: 0.385 gentle: 0.353 smooth: 0.331 prayerful: 0.303 thoughtfulness: 0.246 enthusiastic: 0.218 strong: 0.198 kind: 0.180	welcoming: 0.226 good: 0.190 plain: 0.174 comfort: 0.119 natural: 0.050 manner: -0.019 neutral: -0.048 cheerful: -0.058 suitable: -0.058 confident: -0.069	active: 0.261 tasting: 0.204 manner: 0.187 quality: 0.184 stylish: 0.102 actively: 0.077 plain: 0.042 natural: -0.113 comfortable: -0.134 lively: -0.143
strong: 0.376 smooth: 0.370 intimate: 0.335 secure: 0.277 quality: 0.260 lightly: 0.255 natural: 0.165 stylish: 0.157 neutral: 0.145 respectful: 0.096 confident: 0.075	tasting: 0.677 fine: 0.437 quality: 0.385 gentle: 0.353 smooth: 0.331 prayerful: 0.303 thoughtfulness: 0.246 enthusiastic: 0.218 strong: 0.198 kind: 0.180 lightly: 0.148	welcoming: 0.226 good: 0.190 plain: 0.174 comfort: 0.119 natural: 0.050 manner: -0.019 neutral: -0.048 cheerful: -0.058 suitable: -0.058 confident: -0.069 active: -0.074	active: 0.261 tasting: 0.204 manner: 0.187 quality: 0.184 stylish: 0.102 actively: 0.077 plain: 0.042 natural: -0.113 comfortable: -0.134 lively: -0.143 fresh: -0.153
strong: 0.376 smooth: 0.370 intimate: 0.335 secure: 0.277 quality: 0.260 lightly: 0.255 natural: 0.165 stylish: 0.157 neutral: 0.145 respectful: 0.096 confident: 0.075 plain: 0.037	tasting: 0.677 fine: 0.437 quality: 0.385 gentle: 0.353 smooth: 0.331 prayerful: 0.303 thoughtfulness: 0.246 enthusiastic: 0.218 strong: 0.198 kind: 0.180 lightly: 0.148 rugged: 0.147	welcoming: 0.226 good: 0.190 plain: 0.174 comfort: 0.119 natural: 0.050 manner: -0.019 neutral: -0.048 cheerful: -0.058 suitable: -0.058 confident: -0.069 active: -0.074 gentle: -0.074	active: 0.261 tasting: 0.204 manner: 0.187 quality: 0.184 stylish: 0.102 actively: 0.077 plain: 0.042 natural: -0.113 comfortable: -0.134 lively: -0.143 fresh: -0.153 confident: -0.164

Table 21: Top 20 warmth-related words associated with 'white (color)'

Llama 3.2 11B	Llama 3.2 90B	InstructBLIP 7B	InstructBLIP 13B
trustworthy: 0.990	qualities: 0.987	rugged: 0.985	good: 0.784
slicked: 0.990	slicked: 0.872	flavorful: 0.815	friendly: 0.659
gratitude: 0.853	welcoming: 0.665	solid: 0.763	bright: 0.644
harmonious: 0.768	attired: 0.590	smoothly: 0.570	quality: 0.644
coolness: 0.727	secured: 0.511	secure: 0.549	lively: 0.592
attired: 0.581	suitable: 0.502	bright: 0.545	appreciation: 0.547
flavorful: 0.575	enjoying: 0.332	lively: 0.513	plain: 0.521
talented: 0.567	trust: 0.277	friendly: 0.497	pleasant: 0.521
admiration: 0.543	safe: 0.250	good: 0.442	flavorful: 0.521
respected: 0.538	respect: 0.234	neutral: 0.416	prayerful: 0.466
tasting: 0.531	quality: 0.210	gratitude: 0.307	secure: 0.374
hot: 0.521	neutral: 0.190	appreciation: 0.248	stylish: 0.309
lively: 0.460	kind: 0.176	loving: 0.248	taste: 0.236
trustworthiness: 0.405	stylish: 0.163	pleasantries: 0.248	delicious: 0.199
respect: 0.373	passionate: 0.139	taste: 0.248	warm: 0.159
prayerful: 0.362	kindness: 0.139	plain: 0.215	comfort: 0.132
trust: 0.354	solid: 0.117	stylish: 0.211	comfortable: 0.122
credibility: 0.312	smooth: 0.094	pleasant: 0.178	strong: 0.083
authenticity: 0.290	lively: 0.094	enthusiastic: 0.125	safe: 0.007
welcoming: 0.286	gentle: 0.085	enjoying: 0.112	neutral: -0.106
Pixtral 12B	Pixtral Large	Qwen 2.5 7B	Qwen 2.5 72B
freshness: 0.774	friendliness: 0.806	lively: 0.731	slicked: 0.990
	illelialilless. 0.000	111019.0.751	Slicked: 0.990
good: 0.595	slicked: 0.624	prayerful: 0.579	enthusiastic: 0.797
		ļ	
good: 0.595	slicked: 0.624	prayerful: 0.579	enthusiastic: 0.797
good: 0.595 good: 0.582	slicked: 0.624 good: 0.479	prayerful: 0.579 respect: 0.464	enthusiastic: 0.797 secure: 0.767
good: 0.595 good: 0.582 fine: 0.549	slicked: 0.624 good: 0.479 secure: 0.439	prayerful: 0.579 respect: 0.464 thoughtful: 0.428	enthusiastic: 0.797 secure: 0.767 prayerful: 0.767
good: 0.595 good: 0.582 fine: 0.549 respect: 0.549	slicked: 0.624 good: 0.479 secure: 0.439 solid: 0.371	prayerful: 0.579 respect: 0.464 thoughtful: 0.428 welcoming: 0.294	enthusiastic: 0.797 secure: 0.767 prayerful: 0.767 respect: 0.575
good: 0.595 good: 0.582 fine: 0.549 respect: 0.549 skillfully: 0.511	slicked: 0.624 good: 0.479 secure: 0.439 solid: 0.371 lively: 0.338	prayerful: 0.579 respect: 0.464 thoughtful: 0.428 welcoming: 0.294 fine: 0.294	enthusiastic: 0.797 secure: 0.767 prayerful: 0.767 respect: 0.575 lively: 0.518
good: 0.595 good: 0.582 fine: 0.549 respect: 0.549 skillfully: 0.511 taste: 0.511	slicked: 0.624 good: 0.479 secure: 0.439 solid: 0.371 lively: 0.338 kind: 0.338	prayerful: 0.579 respect: 0.464 thoughtful: 0.428 welcoming: 0.294 fine: 0.294 solid: 0.237	enthusiastic: 0.797 secure: 0.767 prayerful: 0.767 respect: 0.575 lively: 0.518 warmth: 0.405
good: 0.595 good: 0.582 fine: 0.549 respect: 0.549 skillfully: 0.511 taste: 0.511 secured: 0.470	slicked: 0.624 good: 0.479 secure: 0.439 solid: 0.371 lively: 0.338 kind: 0.338 secured: 0.333	prayerful: 0.579 respect: 0.464 thoughtful: 0.428 welcoming: 0.294 fine: 0.294 solid: 0.237 natural: 0.194	enthusiastic: 0.797 secure: 0.767 prayerful: 0.767 respect: 0.575 lively: 0.518 warmth: 0.405 welcoming: 0.390
good: 0.595 good: 0.582 fine: 0.549 respect: 0.549 skillfully: 0.511 taste: 0.511 secured: 0.470 prayerful: 0.412	slicked: 0.624 good: 0.479 secure: 0.439 solid: 0.371 lively: 0.338 kind: 0.338 secured: 0.333 respectful: 0.321	prayerful: 0.579 respect: 0.464 thoughtful: 0.428 welcoming: 0.294 fine: 0.294 solid: 0.237 natural: 0.194 good: 0.164	enthusiastic: 0.797 secure: 0.767 prayerful: 0.767 respect: 0.575 lively: 0.518 warmth: 0.405 welcoming: 0.390 comfortable: 0.373
good: 0.595 good: 0.582 fine: 0.549 respect: 0.549 skillfully: 0.511 taste: 0.511 secured: 0.470 prayerful: 0.412 lively: 0.389	slicked: 0.624 good: 0.479 secure: 0.439 solid: 0.371 lively: 0.338 kind: 0.338 secured: 0.333 respectful: 0.321 thoughtfulness: 0.298	prayerful: 0.579 respect: 0.464 thoughtful: 0.428 welcoming: 0.294 fine: 0.294 solid: 0.237 natural: 0.194 good: 0.164 secured: 0.091	enthusiastic: 0.797 secure: 0.767 prayerful: 0.767 respect: 0.575 lively: 0.518 warmth: 0.405 welcoming: 0.390 comfortable: 0.373 cheerful: 0.317
good: 0.595 good: 0.582 fine: 0.549 respect: 0.549 skillfully: 0.511 taste: 0.511 secured: 0.470 prayerful: 0.412 lively: 0.389 thoughtful: 0.380	slicked: 0.624 good: 0.479 secure: 0.439 solid: 0.371 lively: 0.338 kind: 0.338 secured: 0.333 respectful: 0.321 thoughtfulness: 0.298 welcoming: 0.249	prayerful: 0.579 respect: 0.464 thoughtful: 0.428 welcoming: 0.294 fine: 0.294 solid: 0.237 natural: 0.194 good: 0.164 secured: 0.091 kind: 0.073	enthusiastic: 0.797 secure: 0.767 prayerful: 0.767 respect: 0.575 lively: 0.518 warmth: 0.405 welcoming: 0.390 comfortable: 0.373 cheerful: 0.317 good: 0.295
good: 0.595 good: 0.582 fine: 0.549 respect: 0.549 skillfully: 0.511 taste: 0.511 secured: 0.470 prayerful: 0.412 lively: 0.389 thoughtful: 0.380 cheerful: 0.235	slicked: 0.624 good: 0.479 secure: 0.439 solid: 0.371 lively: 0.338 kind: 0.338 secured: 0.333 respectful: 0.321 thoughtfulness: 0.298 welcoming: 0.249 enthusiastic: 0.238	prayerful: 0.579 respect: 0.464 thoughtful: 0.428 welcoming: 0.294 fine: 0.294 solid: 0.237 natural: 0.194 good: 0.164 secured: 0.091 kind: 0.073 plain: 0.025	enthusiastic: 0.797 secure: 0.767 prayerful: 0.767 respect: 0.575 lively: 0.518 warmth: 0.405 welcoming: 0.390 comfortable: 0.373 cheerful: 0.317 good: 0.295 tasting: 0.289
good: 0.595 good: 0.582 fine: 0.549 respect: 0.549 skillfully: 0.511 taste: 0.511 secured: 0.470 prayerful: 0.412 lively: 0.389 thoughtful: 0.380 cheerful: 0.235 respectful: 0.231	slicked: 0.624 good: 0.479 secure: 0.439 solid: 0.371 lively: 0.338 kind: 0.338 secured: 0.333 respectful: 0.321 thoughtfulness: 0.298 welcoming: 0.249 enthusiastic: 0.238 friendly: 0.178	prayerful: 0.579 respect: 0.464 thoughtful: 0.428 welcoming: 0.294 fine: 0.294 solid: 0.237 natural: 0.194 good: 0.164 secured: 0.091 kind: 0.073 plain: 0.025 fresh: 0.021	enthusiastic: 0.797 secure: 0.767 prayerful: 0.767 respect: 0.575 lively: 0.518 warmth: 0.405 welcoming: 0.390 comfortable: 0.373 cheerful: 0.317 good: 0.295 tasting: 0.289 strong: 0.253
good: 0.595 good: 0.582 fine: 0.549 respect: 0.549 skillfully: 0.511 taste: 0.511 secured: 0.470 prayerful: 0.412 lively: 0.389 thoughtful: 0.380 cheerful: 0.235 respectful: 0.231 enthusiastic: 0.190	slicked: 0.624 good: 0.479 secure: 0.439 solid: 0.371 lively: 0.338 kind: 0.338 secured: 0.333 respectful: 0.321 thoughtfulness: 0.298 welcoming: 0.249 enthusiastic: 0.238 friendly: 0.178 attitude: 0.165	prayerful: 0.579 respect: 0.464 thoughtful: 0.428 welcoming: 0.294 fine: 0.294 solid: 0.237 natural: 0.194 good: 0.164 secured: 0.091 kind: 0.073 plain: 0.025 fresh: 0.021 gentle: -0.006	enthusiastic: 0.797 secure: 0.767 prayerful: 0.767 respect: 0.575 lively: 0.518 warmth: 0.405 welcoming: 0.390 comfortable: 0.373 cheerful: 0.317 good: 0.295 tasting: 0.289 strong: 0.253 secured: 0.238
good: 0.595 good: 0.582 fine: 0.549 respect: 0.549 skillfully: 0.511 taste: 0.511 secured: 0.470 prayerful: 0.412 lively: 0.389 thoughtful: 0.380 cheerful: 0.235 respectful: 0.231 enthusiastic: 0.190 quality: 0.156	slicked: 0.624 good: 0.479 secure: 0.439 solid: 0.371 lively: 0.338 kind: 0.338 secured: 0.333 respectful: 0.321 thoughtfulness: 0.298 welcoming: 0.249 enthusiastic: 0.238 friendly: 0.178 attitude: 0.165 fine: 0.165	prayerful: 0.579 respect: 0.464 thoughtful: 0.428 welcoming: 0.294 fine: 0.294 solid: 0.237 natural: 0.194 good: 0.164 secured: 0.091 kind: 0.073 plain: 0.025 fresh: 0.021 gentle: -0.006 active: -0.006	enthusiastic: 0.797 secure: 0.767 prayerful: 0.767 respect: 0.575 lively: 0.518 warmth: 0.405 welcoming: 0.390 comfortable: 0.373 cheerful: 0.317 good: 0.295 tasting: 0.289 strong: 0.253 secured: 0.238 kind: 0.182
good: 0.595 good: 0.582 fine: 0.549 respect: 0.549 skillfully: 0.511 taste: 0.511 secured: 0.470 prayerful: 0.412 lively: 0.389 thoughtful: 0.380 cheerful: 0.235 respectful: 0.231 enthusiastic: 0.190 quality: 0.156 tasting: 0.149	slicked: 0.624 good: 0.479 secure: 0.439 solid: 0.371 lively: 0.338 kind: 0.338 secured: 0.333 respectful: 0.321 thoughtfulness: 0.298 welcoming: 0.249 enthusiastic: 0.238 friendly: 0.178 attitude: 0.165 fine: 0.165 hot: 0.106	prayerful: 0.579 respect: 0.464 thoughtful: 0.428 welcoming: 0.294 fine: 0.294 solid: 0.237 natural: 0.194 good: 0.164 secured: 0.091 kind: 0.073 plain: 0.025 fresh: 0.021 gentle: -0.006 active: -0.006 friendly: -0.035	enthusiastic: 0.797 secure: 0.767 prayerful: 0.767 respect: 0.575 lively: 0.518 warmth: 0.405 welcoming: 0.390 comfortable: 0.373 cheerful: 0.317 good: 0.295 tasting: 0.289 strong: 0.253 secured: 0.238 kind: 0.182 friendly: 0.176
good: 0.595 good: 0.582 fine: 0.549 respect: 0.549 skillfully: 0.511 taste: 0.511 secured: 0.470 prayerful: 0.412 lively: 0.389 thoughtful: 0.380 cheerful: 0.235 respectful: 0.231 enthusiastic: 0.190 quality: 0.156 tasting: 0.149 welcoming: 0.121	slicked: 0.624 good: 0.479 secure: 0.439 solid: 0.371 lively: 0.338 kind: 0.338 secured: 0.333 respectful: 0.321 thoughtfulness: 0.298 welcoming: 0.249 enthusiastic: 0.238 friendly: 0.178 attitude: 0.165 fine: 0.165 hot: 0.106 safely: 0.098	prayerful: 0.579 respect: 0.464 thoughtful: 0.428 welcoming: 0.294 fine: 0.294 solid: 0.237 natural: 0.194 good: 0.164 secured: 0.091 kind: 0.073 plain: 0.025 fresh: 0.021 gentle: -0.006 active: -0.006 friendly: -0.035 bright: -0.096	enthusiastic: 0.797 secure: 0.767 prayerful: 0.767 respect: 0.575 lively: 0.518 warmth: 0.405 welcoming: 0.390 comfortable: 0.373 cheerful: 0.317 good: 0.295 tasting: 0.289 strong: 0.253 secured: 0.238 kind: 0.182 friendly: 0.176 quality: 0.132

Table 22: Top 20 warmth-related words associated with 'man'

Llama 3.2 11B	Llama 3.2 90B	InstructBLIP 7B	InstructBLIP 13B
loving: 0.872	intimate: 0.843	skillfully: 0.822	beauty: 0.894
generous: 0.788	heated: 0.750	skillful: 0.822	actively: 0.346
flattering: 0.788	strong: 0.616	suitable: 0.720	manner: 0.336
strong: 0.659	indiscernible: 0.598	beauty: 0.717	welcoming: 0.307
secured: 0.657	tasting: 0.565	talented: 0.636	fresh: 0.301
skillfully: 0.595	bright: 0.563	trust: 0.600	natural: 0.293
reliable: 0.446	warm: 0.527	strong: 0.567	appealing: 0.225
cheerful: 0.425	beauty: 0.506	cheerful: 0.555	pleasing: 0.223
trusting: 0.425	enjoys: 0.472	knowledgeable: 0.466	smooth: 0.209
kindness: 0.425	confident: 0.403	active: 0.458	suitable: 0.186
confident: 0.418	calmness: 0.391	harmonious: 0.430	enjoying: 0.162
fluffy: 0.376	committed: 0.361	attractive: 0.352	safely: 0.145
bright: 0.373	manner: 0.297	confident: 0.334	kind: 0.135
warm: 0.369	fresh: 0.261	comfortable: 0.318	confident: 0.106
secure: 0.366	natural: 0.242	natural: 0.278	neutral: 0.098
enjoys: 0.358	fine: 0.235	authenticity: 0.278	safe: -0.007
comfortable: 0.323	friendliness: 0.221	respectful: 0.278	strong: -0.088
beauty: 0.289	comfort: 0.183	delicious: 0.266	comfortable: -0.132
passionate: 0.262	knowledgeable: 0.172	enjoyable: 0.249	comfort: -0.144
smooth: 0.230	delicious: 0.106	welcoming: 0.240	delicious: -0.229
Pixtral 12B	Pixtral Large	Qwen 2.5 7B	Qwen 2.5 72B
enjoyable: 1.003	beauty: 0.785	secure: 1.006	beauty: 0.788
beauty: 0.939	smoothly: 0.516	comfort: 0.521	manner: 0.657
	1	comfort: 0.521 comfortable: 0.521	manner: 0.657 pleasant: 0.525
beauty: 0.939	smoothly: 0.516		
beauty: 0.939 heated: 0.781	smoothly: 0.516 harmonious: 0.516	comfortable: 0.521	pleasant: 0.525
beauty: 0.939 heated: 0.781 warm: 0.645	smoothly: 0.516 harmonious: 0.516 passionately: 0.516	comfortable: 0.521 stylish: 0.475	pleasant: 0.525 warm: 0.382
beauty: 0.939 heated: 0.781 warm: 0.645 comfort: 0.556	smoothly: 0.516 harmonious: 0.516 passionately: 0.516 warm: 0.466	comfortable: 0.521 stylish: 0.475 cheerful: 0.458	pleasant: 0.525 warm: 0.382 fine: 0.310
beauty: 0.939 heated: 0.781 warm: 0.645 comfort: 0.556 safe: 0.518	smoothly: 0.516 harmonious: 0.516 passionately: 0.516 warm: 0.466 strong: 0.433	comfortable: 0.521 stylish: 0.475 cheerful: 0.458 enjoying: 0.453	pleasant: 0.525 warm: 0.382 fine: 0.310 solid: 0.273
beauty: 0.939 heated: 0.781 warm: 0.645 comfort: 0.556 safe: 0.518 strong: 0.518	smoothly: 0.516 harmonious: 0.516 passionately: 0.516 warm: 0.466 strong: 0.433 affectionately: 0.416	comfortable: 0.521 stylish: 0.475 cheerful: 0.458 enjoying: 0.453 suitable: 0.402	pleasant: 0.525 warm: 0.382 fine: 0.310 solid: 0.273 confident: 0.258
beauty: 0.939 heated: 0.781 warm: 0.645 comfort: 0.556 safe: 0.518 strong: 0.518 lightly: 0.482	smoothly: 0.516 harmonious: 0.516 passionately: 0.516 warm: 0.466 strong: 0.433 affectionately: 0.416 suited: 0.416	comfortable: 0.521 stylish: 0.475 cheerful: 0.458 enjoying: 0.453 suitable: 0.402 smooth: 0.351	pleasant: 0.525 warm: 0.382 fine: 0.310 solid: 0.273 confident: 0.258 heated: 0.233
beauty: 0.939 heated: 0.781 warm: 0.645 comfort: 0.556 safe: 0.518 strong: 0.518 lightly: 0.482 manner: 0.411	smoothly: 0.516 harmonious: 0.516 passionately: 0.516 warm: 0.466 strong: 0.433 affectionately: 0.416 suited: 0.416 gentle: 0.331	comfortable: 0.521 stylish: 0.475 cheerful: 0.458 enjoying: 0.453 suitable: 0.402 smooth: 0.351 manner: 0.331	pleasant: 0.525 warm: 0.382 fine: 0.310 solid: 0.273 confident: 0.258 heated: 0.233 neutral: 0.210
beauty: 0.939 heated: 0.781 warm: 0.645 comfort: 0.556 safe: 0.518 strong: 0.518 lightly: 0.482 manner: 0.411 comfortable: 0.371	smoothly: 0.516 harmonious: 0.516 passionately: 0.516 warm: 0.466 strong: 0.433 affectionately: 0.416 suited: 0.416 gentle: 0.331 confident: 0.331	comfortable: 0.521 stylish: 0.475 cheerful: 0.458 enjoying: 0.453 suitable: 0.402 smooth: 0.351 manner: 0.331 tasting: 0.295	pleasant: 0.525 warm: 0.382 fine: 0.310 solid: 0.273 confident: 0.258 heated: 0.233 neutral: 0.210 active: 0.191
beauty: 0.939 heated: 0.781 warm: 0.645 comfort: 0.556 safe: 0.518 strong: 0.518 lightly: 0.482 manner: 0.411 comfortable: 0.371 confident: 0.367	smoothly: 0.516 harmonious: 0.516 passionately: 0.516 warm: 0.466 strong: 0.433 affectionately: 0.416 suited: 0.416 gentle: 0.331 confident: 0.323	comfortable: 0.521 stylish: 0.475 cheerful: 0.458 enjoying: 0.453 suitable: 0.402 smooth: 0.351 manner: 0.331 tasting: 0.295 strong: 0.269	pleasant: 0.525 warm: 0.382 fine: 0.310 solid: 0.273 confident: 0.258 heated: 0.233 neutral: 0.210 active: 0.191 fluffy: 0.176
beauty: 0.939 heated: 0.781 warm: 0.645 comfort: 0.556 safe: 0.518 strong: 0.518 lightly: 0.482 manner: 0.411 comfortable: 0.371 confident: 0.367 grayish: 0.351	smoothly: 0.516 harmonious: 0.516 passionately: 0.516 warm: 0.466 strong: 0.433 affectionately: 0.416 suited: 0.416 gentle: 0.331 confident: 0.331 qualities: 0.323 knowledgeable: 0.301	comfortable: 0.521 stylish: 0.475 cheerful: 0.458 enjoying: 0.453 suitable: 0.402 smooth: 0.351 manner: 0.331 tasting: 0.295 strong: 0.269 fluffy: 0.269	pleasant: 0.525 warm: 0.382 fine: 0.310 solid: 0.273 confident: 0.258 heated: 0.233 neutral: 0.210 active: 0.191 fluffy: 0.176 thoughtful: 0.136
beauty: 0.939 heated: 0.781 warm: 0.645 comfort: 0.556 safe: 0.518 strong: 0.518 lightly: 0.482 manner: 0.411 comfortable: 0.371 confident: 0.367 grayish: 0.351 enjoying: 0.279	smoothly: 0.516 harmonious: 0.516 passionately: 0.516 warm: 0.466 strong: 0.433 affectionately: 0.416 suited: 0.416 gentle: 0.331 confident: 0.331 qualities: 0.323 knowledgeable: 0.301 pleasant: 0.299 bright: 0.297 appealing: 0.264	comfortable: 0.521 stylish: 0.475 cheerful: 0.458 enjoying: 0.453 suitable: 0.402 smooth: 0.351 manner: 0.331 tasting: 0.295 strong: 0.269 fluffy: 0.269 heated: 0.228	pleasant: 0.525 warm: 0.382 fine: 0.310 solid: 0.273 confident: 0.258 heated: 0.233 neutral: 0.210 active: 0.191 fluffy: 0.176 thoughtful: 0.136 suitable: 0.131
beauty: 0.939 heated: 0.781 warm: 0.645 comfort: 0.556 safe: 0.518 strong: 0.518 lightly: 0.482 manner: 0.411 comfortable: 0.371 confident: 0.367 grayish: 0.351 enjoying: 0.279 fluffy: 0.253	smoothly: 0.516 harmonious: 0.516 passionately: 0.516 warm: 0.466 strong: 0.433 affectionately: 0.416 suited: 0.416 gentle: 0.331 confident: 0.331 qualities: 0.323 knowledgeable: 0.301 pleasant: 0.299 bright: 0.297 appealing: 0.264 lightly: 0.249	comfortable: 0.521 stylish: 0.475 cheerful: 0.458 enjoying: 0.453 suitable: 0.402 smooth: 0.351 manner: 0.331 tasting: 0.295 strong: 0.269 fluffy: 0.269 heated: 0.228 confident: 0.211	pleasant: 0.525 warm: 0.382 fine: 0.310 solid: 0.273 confident: 0.258 heated: 0.233 neutral: 0.210 active: 0.191 fluffy: 0.176 thoughtful: 0.136 suitable: 0.131 bright: 0.124 enjoying: 0.098 lightly: 0.010
beauty: 0.939 heated: 0.781 warm: 0.645 comfort: 0.556 safe: 0.518 strong: 0.518 lightly: 0.482 manner: 0.411 comfortable: 0.371 confident: 0.367 grayish: 0.351 enjoying: 0.279 fluffy: 0.253 pleasant: 0.210	smoothly: 0.516 harmonious: 0.516 passionately: 0.516 warm: 0.466 strong: 0.433 affectionately: 0.416 suited: 0.416 gentle: 0.331 confident: 0.331 qualities: 0.323 knowledgeable: 0.301 pleasant: 0.299 bright: 0.297 appealing: 0.264	comfortable: 0.521 stylish: 0.475 cheerful: 0.458 enjoying: 0.453 suitable: 0.402 smooth: 0.351 manner: 0.331 tasting: 0.295 strong: 0.269 fluffy: 0.269 heated: 0.228 confident: 0.211 warm: 0.158	pleasant: 0.525 warm: 0.382 fine: 0.310 solid: 0.273 confident: 0.258 heated: 0.233 neutral: 0.210 active: 0.191 fluffy: 0.176 thoughtful: 0.136 suitable: 0.131 bright: 0.124 enjoying: 0.098
beauty: 0.939 heated: 0.781 warm: 0.645 comfort: 0.556 safe: 0.518 strong: 0.518 lightly: 0.482 manner: 0.411 comfortable: 0.371 confident: 0.367 grayish: 0.351 enjoying: 0.279 fluffy: 0.253 pleasant: 0.210 actively: 0.202 neutral: 0.155 natural: 0.146	smoothly: 0.516 harmonious: 0.516 passionately: 0.516 warm: 0.466 strong: 0.433 affectionately: 0.416 suited: 0.416 gentle: 0.331 confident: 0.331 qualities: 0.323 knowledgeable: 0.301 pleasant: 0.299 bright: 0.297 appealing: 0.264 lightly: 0.249	comfortable: 0.521 stylish: 0.475 cheerful: 0.458 enjoying: 0.453 suitable: 0.402 smooth: 0.351 manner: 0.331 tasting: 0.295 strong: 0.269 fluffy: 0.269 heated: 0.228 confident: 0.211 warm: 0.158 quality: 0.122 actively: 0.105 bright: 0.091	pleasant: 0.525 warm: 0.382 fine: 0.310 solid: 0.273 confident: 0.258 heated: 0.233 neutral: 0.210 active: 0.191 fluffy: 0.176 thoughtful: 0.136 suitable: 0.131 bright: 0.124 enjoying: 0.098 lightly: 0.010 plain: 0.005 gentle: -0.034
beauty: 0.939 heated: 0.781 warm: 0.645 comfort: 0.556 safe: 0.518 strong: 0.518 lightly: 0.482 manner: 0.411 comfortable: 0.371 confident: 0.367 grayish: 0.351 enjoying: 0.279 fluffy: 0.253 pleasant: 0.210 actively: 0.202 neutral: 0.155	smoothly: 0.516 harmonious: 0.516 passionately: 0.516 warm: 0.466 strong: 0.433 affectionately: 0.416 suited: 0.416 gentle: 0.331 confident: 0.331 qualities: 0.323 knowledgeable: 0.301 pleasant: 0.299 bright: 0.297 appealing: 0.264 lightly: 0.249 active: 0.224	comfortable: 0.521 stylish: 0.475 cheerful: 0.458 enjoying: 0.453 suitable: 0.402 smooth: 0.351 manner: 0.331 tasting: 0.295 strong: 0.269 fluffy: 0.269 heated: 0.228 confident: 0.211 warm: 0.158 quality: 0.122 actively: 0.105	pleasant: 0.525 warm: 0.382 fine: 0.310 solid: 0.273 confident: 0.258 heated: 0.233 neutral: 0.210 active: 0.191 fluffy: 0.176 thoughtful: 0.136 suitable: 0.131 bright: 0.124 enjoying: 0.098 lightly: 0.010 plain: 0.005

Table 23: Top 20 warmth-related words associated with 'woman'

Llama 3.2 11B	Llama 3.2 90B	InstructBLIP 7B	InstructBLIP 13B
admiration: 0.929	fresh: 0.834	skillful: 0.910	safe: 1.371
safely: 0.797	respect: 0.528	neutral: 0.620	prayerful: 0.915
respected: 0.621	calmness: 0.512	fresh: 0.573	comfortable: 0.816
fluffy: 0.481	enjoying: 0.390	suitable: 0.350	smooth: 0.809
solid: 0.443	good: 0.342	respected: 0.347	kind: 0.736
committed: 0.344	beauty: 0.260	safe: 0.345	appealing: 0.572
friendliness: 0.286	quality: 0.249	safely: 0.308	pleasing: 0.543
appealing: 0.247	smooth: 0.227	appreciation: 0.266	delicious: 0.327
reliable: 0.234	gentle: 0.170	smooth: 0.251	manner: 0.207
quality: 0.131	solid: 0.148	secure: 0.234	neutral: 0.055
enjoying: 0.127	secured: 0.097	welcoming: 0.151	enjoying: 0.016
knowledgeable: 0.106	warmth: 0.074	cheerful: 0.129	actively: -0.131
natural: 0.043	friendliness: 0.063	attitude: 0.112	confident: -0.269
smooth: 0.040	neutral: -0.034	lively: 0.086	welcoming: -0.294
comfort: 0.028	plain: -0.042	delicious: 0.016	suitable: -0.307
rugged: 0.011	bright: -0.125	enjoying: -0.027	stylish: -0.426
bright: -0.014	attired: -0.180	good: -0.047	•
plain: -0.015	kind: -0.251	manner: -0.108	
manner: -0.022	strong: -0.281	actively: -0.131	
beauty: -0.035	confident: -0.361	appealing: -0.219	
Pixtral 12B	Pixtral Large	Qwen 2.5 7B	Qwen 2.5 72B
fluffy: 0.532	calmness: 2.594	solid: 0.820	kind: 0.896
quality: 0.467	comfort: 0.816	suitable: 0.651	lively: 0.807
enthusiastic: 0.349	appealing: 0.594	smooth: 0.507	smooth: 0.502
smooth: 0.250	beauty: 0.594	quality: 0.471	fluffy: 0.498
neutral: 0.174	enthusiastic: 0.363	friendly: 0.457	quality: 0.483
suitable: 0.161	rugged: 0.308	secured: 0.321	suitable: 0.332
enjoying: 0.131		bright: 0.312	manner: 0.242
CHIOVINE, U.131	Dieasaiit. U.300	DH2Ht. 0.512	
manner: 0.122	pleasant: 0.306 fine: 0.236		
manner: 0.122	fine: 0.236 smooth: 0.213	welcoming: 0.199	bright: 0.192 cheerful: 0.109
manner: 0.122 cheerful: 0.096	fine: 0.236 smooth: 0.213	welcoming: 0.199 natural: 0.192	bright: 0.192 cheerful: 0.109
manner: 0.122 cheerful: 0.096 welcoming: 0.091	fine: 0.236 smooth: 0.213 suitable: 0.210	welcoming: 0.199 natural: 0.192 kind: 0.171	bright: 0.192 cheerful: 0.109 active: 0.086
manner: 0.122 cheerful: 0.096 welcoming: 0.091 plain: -0.007	fine: 0.236 smooth: 0.213 suitable: 0.210 neutral: 0.180	welcoming: 0.199 natural: 0.192 kind: 0.171 plain: 0.023	bright: 0.192 cheerful: 0.109 active: 0.086 good: 0.031
manner: 0.122 cheerful: 0.096 welcoming: 0.091 plain: -0.007 bright: -0.009	fine: 0.236 smooth: 0.213 suitable: 0.210 neutral: 0.180 tasting: 0.161	welcoming: 0.199 natural: 0.192 kind: 0.171 plain: 0.023 stylish: 0.014	bright: 0.192 cheerful: 0.109 active: 0.086 good: 0.031 actively: 0.006
manner: 0.122 cheerful: 0.096 welcoming: 0.091 plain: -0.007 bright: -0.009 natural: -0.051	fine: 0.236 smooth: 0.213 suitable: 0.210 neutral: 0.180 tasting: 0.161 good: 0.158	welcoming: 0.199 natural: 0.192 kind: 0.171 plain: 0.023 stylish: 0.014 neutral: -0.051	bright: 0.192 cheerful: 0.109 active: 0.086 good: 0.031 actively: 0.006 plain: -0.046
manner: 0.122 cheerful: 0.096 welcoming: 0.091 plain: -0.007 bright: -0.009 natural: -0.051 actively: -0.078	fine: 0.236 smooth: 0.213 suitable: 0.210 neutral: 0.180 tasting: 0.161 good: 0.158 lively: 0.149	welcoming: 0.199 natural: 0.192 kind: 0.171 plain: 0.023 stylish: 0.014 neutral: -0.051 manner: -0.121	bright: 0.192 cheerful: 0.109 active: 0.086 good: 0.031 actively: 0.006
manner: 0.122 cheerful: 0.096 welcoming: 0.091 plain: -0.007 bright: -0.009 natural: -0.051 actively: -0.078 fresh: -0.095	fine: 0.236 smooth: 0.213 suitable: 0.210 neutral: 0.180 tasting: 0.161 good: 0.158 lively: 0.149 friendly: 0.116	welcoming: 0.199 natural: 0.192 kind: 0.171 plain: 0.023 stylish: 0.014 neutral: -0.051 manner: -0.121 confident: -0.176	bright: 0.192 cheerful: 0.109 active: 0.086 good: 0.031 actively: 0.006 plain: -0.046 friendly: -0.052 natural: -0.095
manner: 0.122 cheerful: 0.096 welcoming: 0.091 plain: -0.007 bright: -0.009 natural: -0.051 actively: -0.078 fresh: -0.095 friendly: -0.131	fine: 0.236 smooth: 0.213 suitable: 0.210 neutral: 0.180 tasting: 0.161 good: 0.158 lively: 0.149 friendly: 0.116 secure: 0.108	welcoming: 0.199 natural: 0.192 kind: 0.171 plain: 0.023 stylish: 0.014 neutral: -0.051 manner: -0.121 confident: -0.176 fresh: -0.208	bright: 0.192 cheerful: 0.109 active: 0.086 good: 0.031 actively: 0.006 plain: -0.046 friendly: -0.052 natural: -0.095 welcoming: -0.111
manner: 0.122 cheerful: 0.096 welcoming: 0.091 plain: -0.007 bright: -0.009 natural: -0.051 actively: -0.078 fresh: -0.095 friendly: -0.131 confident: -0.339	fine: 0.236 smooth: 0.213 suitable: 0.210 neutral: 0.180 tasting: 0.161 good: 0.158 lively: 0.149 friendly: 0.116 secure: 0.108 cheerful: 0.106	welcoming: 0.199 natural: 0.192 kind: 0.171 plain: 0.023 stylish: 0.014 neutral: -0.051 manner: -0.121 confident: -0.176	bright: 0.192 cheerful: 0.109 active: 0.086 good: 0.031 actively: 0.006 plain: -0.046 friendly: -0.052 natural: -0.095 welcoming: -0.111 enjoying: -0.145
manner: 0.122 cheerful: 0.096 welcoming: 0.091 plain: -0.007 bright: -0.009 natural: -0.051 actively: -0.078 fresh: -0.095 friendly: -0.131	fine: 0.236 smooth: 0.213 suitable: 0.210 neutral: 0.180 tasting: 0.161 good: 0.158 lively: 0.149 friendly: 0.116 secure: 0.108	welcoming: 0.199 natural: 0.192 kind: 0.171 plain: 0.023 stylish: 0.014 neutral: -0.051 manner: -0.121 confident: -0.176 fresh: -0.208	bright: 0.192 cheerful: 0.109 active: 0.086 good: 0.031 actively: 0.006 plain: -0.046 friendly: -0.052 natural: -0.095 welcoming: -0.111

Table 24: Top 20 warmth-related words associated with 'Asian'

Llama 3.2 11B	Llama 3.2 90B	InstructBLIP 7B	InstructBLIP 13B
hot: 1.640	stylish: 0.705	reliable: 1.370	pleasing: 1.157
secure: 0.697	manner: 0.599	prayerful: 0.827	fresh: 0.970
fine: 0.605	warm: 0.421	attitude: 0.802	friendly: 0.748
talented: 0.570	confident: 0.297	plain: 0.734	taste: 0.505
reliable: 0.553	enjoying: 0.289	enthusiastic: 0.678	enjoying: 0.450
intimate: 0.553	comfortable: 0.230	committed: 0.645	kind: 0.282
delicious: 0.546	respect: 0.171	cheerful: 0.548	strong: 0.233
enjoys: 0.503	passionate: 0.158	active: 0.533	confident: 0.196
appealing: 0.487	smooth: 0.113	stylish: 0.502	welcoming: 0.153
safe: 0.470	natural: 0.055	friendly: 0.497	neutral: 0.121
safely: 0.439	plain: 0.039	natural: 0.463	manner: 0.091
friendliness: 0.413	neutral: 0.016	strong: 0.463	appealing: -0.383
confident: 0.406	strong: -0.022	confident: 0.427	actively: -0.433
attired: 0.357	actively: -0.028	good: 0.410	stylish: -0.465
good: 0.355	bright: -0.046	respect: 0.394	suitable: -0.793
fresh: 0.354	attired: -0.059	secure: 0.391	delicious: -0.904
secured: 0.353	kind: -0.063	comfortable: 0.382	
trust: 0.346	fresh: -0.087	passionate: 0.360	
strong: 0.342	warmth: -0.095	knowledgeable: 0.310	
knowledgeable: 0.339	friendliness: -0.099	quality: 0.308	
Pixtral 12B	Pixtral Large	Qwen 2.5 7B	Qwen 2.5 72B
	0		_
solid: 1.720	friendliness: 0.925	stylish: 0.753	strong: 1.033
solid: 1.720 respect: 1.272		stylish: 0.753 thoughtful: 0.718	strong: 1.033 warm: 0.852
	friendliness: 0.925		_
respect: 1.272	friendliness: 0.925 strong: 0.878	thoughtful: 0.718	warm: 0.852
respect: 1.272 tasting: 1.232	friendliness: 0.925 strong: 0.878 warmth: 0.866	thoughtful: 0.718 manner: 0.657	warm: 0.852 good: 0.852
respect: 1.272 tasting: 1.232 cheerful: 0.597	friendliness: 0.925 strong: 0.878 warmth: 0.866 heated: 0.755	thoughtful: 0.718 manner: 0.657 confident: 0.530	warm: 0.852 good: 0.852 active: 0.618
respect: 1.272 tasting: 1.232 cheerful: 0.597 confident: 0.432	friendliness: 0.925 strong: 0.878 warmth: 0.866 heated: 0.755 warm: 0.675	thoughtful: 0.718 manner: 0.657 confident: 0.530 natural: 0.510	warm: 0.852 good: 0.852 active: 0.618 bright: 0.418
respect: 1.272 tasting: 1.232 cheerful: 0.597 confident: 0.432 stylish: 0.428	friendliness: 0.925 strong: 0.878 warmth: 0.866 heated: 0.755 warm: 0.675 tasting: 0.656	thoughtful: 0.718 manner: 0.657 confident: 0.530 natural: 0.510 enjoying: 0.468	warm: 0.852 good: 0.852 active: 0.618 bright: 0.418 confident: 0.406
respect: 1.272 tasting: 1.232 cheerful: 0.597 confident: 0.432 stylish: 0.428 thoughtful: 0.393	friendliness: 0.925 strong: 0.878 warmth: 0.866 heated: 0.755 warm: 0.675 tasting: 0.656 quality: 0.516	thoughtful: 0.718 manner: 0.657 confident: 0.530 natural: 0.510 enjoying: 0.468 bright: 0.244	warm: 0.852 good: 0.852 active: 0.618 bright: 0.418 confident: 0.406 stylish: 0.354
respect: 1.272 tasting: 1.232 cheerful: 0.597 confident: 0.432 stylish: 0.428 thoughtful: 0.393 warm: 0.204	friendliness: 0.925 strong: 0.878 warmth: 0.866 heated: 0.755 warm: 0.675 tasting: 0.656 quality: 0.516 hot: 0.488	thoughtful: 0.718 manner: 0.657 confident: 0.530 natural: 0.510 enjoying: 0.468 bright: 0.244 kind: 0.048	warm: 0.852 good: 0.852 active: 0.618 bright: 0.418 confident: 0.406 stylish: 0.354 cheerful: 0.267
respect: 1.272 tasting: 1.232 cheerful: 0.597 confident: 0.432 stylish: 0.428 thoughtful: 0.393 warm: 0.204 bright: 0.200	friendliness: 0.925 strong: 0.878 warmth: 0.866 heated: 0.755 warm: 0.675 tasting: 0.656 quality: 0.516 hot: 0.488 comfort: 0.478	thoughtful: 0.718 manner: 0.657 confident: 0.530 natural: 0.510 enjoying: 0.468 bright: 0.244 kind: 0.048 quality: 0.030	warm: 0.852 good: 0.852 active: 0.618 bright: 0.418 confident: 0.406 stylish: 0.354 cheerful: 0.267 lively: 0.191
respect: 1.272 tasting: 1.232 cheerful: 0.597 confident: 0.432 stylish: 0.428 thoughtful: 0.393 warm: 0.204 bright: 0.200 suitable: 0.116	friendliness: 0.925 strong: 0.878 warmth: 0.866 heated: 0.755 warm: 0.675 tasting: 0.656 quality: 0.516 hot: 0.488 comfort: 0.478 stylish: 0.451	thoughtful: 0.718 manner: 0.657 confident: 0.530 natural: 0.510 enjoying: 0.468 bright: 0.244 kind: 0.048 quality: 0.030 plain: 0.001	warm: 0.852 good: 0.852 active: 0.618 bright: 0.418 confident: 0.406 stylish: 0.354 cheerful: 0.267 lively: 0.191 fresh: 0.103
respect: 1.272 tasting: 1.232 cheerful: 0.597 confident: 0.432 stylish: 0.428 thoughtful: 0.393 warm: 0.204 bright: 0.200 suitable: 0.116 enthusiastic: 0.109	friendliness: 0.925 strong: 0.878 warmth: 0.866 heated: 0.755 warm: 0.675 tasting: 0.656 quality: 0.516 hot: 0.488 comfort: 0.478 stylish: 0.451 cheerful: 0.438	thoughtful: 0.718 manner: 0.657 confident: 0.530 natural: 0.510 enjoying: 0.468 bright: 0.244 kind: 0.048 quality: 0.030 plain: 0.001 neutral: -0.011	warm: 0.852 good: 0.852 active: 0.618 bright: 0.418 confident: 0.406 stylish: 0.354 cheerful: 0.267 lively: 0.191 fresh: 0.103 neutral: 0.070
respect: 1.272 tasting: 1.232 cheerful: 0.597 confident: 0.432 stylish: 0.428 thoughtful: 0.393 warm: 0.204 bright: 0.200 suitable: 0.116 enthusiastic: 0.109 active: 0.009	friendliness: 0.925 strong: 0.878 warmth: 0.866 heated: 0.755 warm: 0.675 tasting: 0.656 quality: 0.516 hot: 0.488 comfort: 0.478 stylish: 0.451 cheerful: 0.438 attitude: 0.416	thoughtful: 0.718 manner: 0.657 confident: 0.530 natural: 0.510 enjoying: 0.468 bright: 0.244 kind: 0.048 quality: 0.030 plain: 0.001 neutral: -0.011 fresh: -0.090	warm: 0.852 good: 0.852 active: 0.618 bright: 0.418 confident: 0.406 stylish: 0.354 cheerful: 0.267 lively: 0.191 fresh: 0.103 neutral: 0.070 plain: 0.023
respect: 1.272 tasting: 1.232 cheerful: 0.597 confident: 0.432 stylish: 0.428 thoughtful: 0.393 warm: 0.204 bright: 0.200 suitable: 0.116 enthusiastic: 0.109 active: 0.009 friendly: 0.009	friendliness: 0.925 strong: 0.878 warmth: 0.866 heated: 0.755 warm: 0.675 tasting: 0.656 quality: 0.516 hot: 0.488 comfort: 0.478 stylish: 0.451 cheerful: 0.438 attitude: 0.416 safely: 0.381	thoughtful: 0.718 manner: 0.657 confident: 0.530 natural: 0.510 enjoying: 0.468 bright: 0.244 kind: 0.048 quality: 0.030 plain: 0.001 neutral: -0.011 fresh: -0.090 suitable: -0.320	warm: 0.852 good: 0.852 active: 0.618 bright: 0.418 confident: 0.406 stylish: 0.354 cheerful: 0.267 lively: 0.191 fresh: 0.103 neutral: 0.070 plain: 0.023 suitable: -0.099
respect: 1.272 tasting: 1.232 cheerful: 0.597 confident: 0.432 stylish: 0.428 thoughtful: 0.393 warm: 0.204 bright: 0.200 suitable: 0.116 enthusiastic: 0.109 active: 0.009 friendly: 0.009 fresh: 0.007	friendliness: 0.925 strong: 0.878 warmth: 0.866 heated: 0.755 warm: 0.675 tasting: 0.656 quality: 0.516 hot: 0.488 comfort: 0.478 stylish: 0.451 cheerful: 0.438 attitude: 0.416 safely: 0.381 enjoying: 0.351	thoughtful: 0.718 manner: 0.657 confident: 0.530 natural: 0.510 enjoying: 0.468 bright: 0.244 kind: 0.048 quality: 0.030 plain: 0.001 neutral: -0.011 fresh: -0.090 suitable: -0.320 smooth: -0.372	warm: 0.852 good: 0.852 active: 0.618 bright: 0.418 confident: 0.406 stylish: 0.354 cheerful: 0.267 lively: 0.191 fresh: 0.103 neutral: 0.070 plain: 0.023 suitable: -0.099 friendly: -0.125
respect: 1.272 tasting: 1.232 cheerful: 0.597 confident: 0.432 stylish: 0.428 thoughtful: 0.393 warm: 0.204 bright: 0.200 suitable: 0.116 enthusiastic: 0.109 active: 0.009 friendly: 0.009 fresh: 0.007 plain: 0.005	friendliness: 0.925 strong: 0.878 warmth: 0.866 heated: 0.755 warm: 0.675 tasting: 0.656 quality: 0.516 hot: 0.488 comfort: 0.478 stylish: 0.451 cheerful: 0.438 attitude: 0.416 safely: 0.381 enjoying: 0.351 natural: 0.339	thoughtful: 0.718 manner: 0.657 confident: 0.530 natural: 0.510 enjoying: 0.468 bright: 0.244 kind: 0.048 quality: 0.030 plain: 0.001 neutral: -0.011 fresh: -0.090 suitable: -0.320 smooth: -0.372 friendly: -0.579	warm: 0.852 good: 0.852 active: 0.618 bright: 0.418 confident: 0.406 stylish: 0.354 cheerful: 0.267 lively: 0.191 fresh: 0.103 neutral: 0.070 plain: 0.023 suitable: -0.099 friendly: -0.125 actively: -0.218
respect: 1.272 tasting: 1.232 cheerful: 0.597 confident: 0.432 stylish: 0.428 thoughtful: 0.393 warm: 0.204 bright: 0.200 suitable: 0.116 enthusiastic: 0.109 active: 0.009 friendly: 0.009 fresh: 0.007 plain: 0.005 actively: 0.002	friendliness: 0.925 strong: 0.878 warmth: 0.866 heated: 0.755 warm: 0.675 tasting: 0.656 quality: 0.516 hot: 0.488 comfort: 0.478 stylish: 0.451 cheerful: 0.438 attitude: 0.416 safely: 0.381 enjoying: 0.351 natural: 0.339 solid: 0.323	thoughtful: 0.718 manner: 0.657 confident: 0.530 natural: 0.510 enjoying: 0.468 bright: 0.244 kind: 0.048 quality: 0.030 plain: 0.001 neutral: -0.011 fresh: -0.090 suitable: -0.320 smooth: -0.372 friendly: -0.579 actively: -0.798	warm: 0.852 good: 0.852 active: 0.618 bright: 0.418 confident: 0.406 stylish: 0.354 cheerful: 0.267 lively: 0.191 fresh: 0.103 neutral: 0.070 plain: 0.023 suitable: -0.099 friendly: -0.125 actively: -0.218 welcoming: -0.219
respect: 1.272 tasting: 1.232 cheerful: 0.597 confident: 0.432 stylish: 0.428 thoughtful: 0.393 warm: 0.204 bright: 0.200 suitable: 0.116 enthusiastic: 0.109 active: 0.009 friendly: 0.009 friendly: 0.007 plain: 0.005 actively: 0.002 neutral: 0.001	friendliness: 0.925 strong: 0.878 warmth: 0.866 heated: 0.755 warm: 0.675 tasting: 0.656 quality: 0.516 hot: 0.488 comfort: 0.478 stylish: 0.451 cheerful: 0.438 attitude: 0.416 safely: 0.381 enjoying: 0.351 natural: 0.339 solid: 0.323 welcoming: 0.318	thoughtful: 0.718 manner: 0.657 confident: 0.530 natural: 0.510 enjoying: 0.468 bright: 0.244 kind: 0.048 quality: 0.030 plain: 0.001 neutral: -0.011 fresh: -0.090 suitable: -0.320 smooth: -0.372 friendly: -0.579 actively: -0.798	warm: 0.852 good: 0.852 active: 0.618 bright: 0.418 confident: 0.406 stylish: 0.354 cheerful: 0.267 lively: 0.191 fresh: 0.103 neutral: 0.070 plain: 0.023 suitable: -0.099 friendly: -0.125 actively: -0.218 welcoming: -0.219 smooth: -0.352

Table 25: Top 20 warmth-related words associated with 'Black'

Llama 3.2 11B	Llama 3.2 90B	InstructBLIP 7B	InstructBLIP 13B
appreciation: 1.038	fluffy: 1.258	natural: 0.919	prayerful: 0.908
admiration: 0.983	comfort: 0.995	beauty: 0.461	stylish: 0.396
good: 0.605	calmness: 0.810	plain: 0.316	comfortable: 0.323
authenticity: 0.453	gentle: 0.693	safely: 0.309	taste: 0.313
respectful: 0.246	natural: 0.274	knowledgeable: 0.267	suitable: 0.100
calmness: 0.238	passionate: 0.240	safe: 0.247	actively: 0.013
warmth: 0.219	solid: 0.183	comfort: 0.231	welcoming: -0.039
respected: 0.190	warmth: 0.156	enjoys: 0.180	neutral: -0.066
bright: 0.123	natural: 0.156	enthusiastic: 0.144	manner: -0.079
respect: 0.094	warm: 0.155	strong: 0.123	confident: -0.093
kind: 0.086	actively: 0.154	respect: 0.101	appealing: -0.275
gentle: 0.078	kind: 0.054	actively: 0.095	delicious: -0.359
solid: 0.072	knowledgeable: 0.054	quality: 0.063	strong: -0.611
intimate: 0.066	beauty: 0.033	stylish: 0.029	enjoying: -0.858
beauty: 0.055	plain: 0.031	enjoying: 0.021	
warm: 0.045	comfortable: -0.023	passionate: 0.016	
strong: 0.013	respect: -0.028	smooth: 0.004	
friendly: -0.005	attired: -0.034	good: -0.046	
confident: -0.032	friendly: -0.116	confident: -0.062	
comfortable: -0.062	enjoying: -0.215	neutral: -0.097	
	enjoying: -0.215 Pixtral Large	neutral: -0.097 Qwen 2.5 7B	Qwen 2.5 72B
comfortable: -0.062			1 -
comfortable: -0.062 Pixtral 12B intimate: 1.328	Pixtral Large	Qwen 2.5 7B	Qwen 2.5 72B lightly: 0.847 kind: 0.362
Pixtral 12B intimate: 1.328 beauty: 1.067	Pixtral Large respectful: 1.389	Qwen 2.5 7B active: 0.736	lightly: 0.847
comfortable: -0.062 Pixtral 12B intimate: 1.328	Pixtral Large respectful: 1.389 respect: 1.203 slicked: 0.851	Qwen 2.5 7B active: 0.736 solid: 0.475 suitable: 0.318	lightly: 0.847 kind: 0.362
Pixtral 12B intimate: 1.328 beauty: 1.067 respectful: 0.825	Pixtral Large respectful: 1.389 respect: 1.203	Qwen 2.5 7B active: 0.736 solid: 0.475 suitable: 0.318 quality: 0.290	lightly: 0.847 kind: 0.362 quality: 0.311
Pixtral 12B intimate: 1.328 beauty: 1.067 respectful: 0.825 gentle: 0.813 secured: 0.783	respectful: 1.389 respect: 1.203 slicked: 0.851 fluffy: 0.634	Qwen 2.5 7B active: 0.736 solid: 0.475 suitable: 0.318	lightly: 0.847 kind: 0.362 quality: 0.311 active: 0.262
Pixtral 12B intimate: 1.328 beauty: 1.067 respectful: 0.825 gentle: 0.813	Pixtral Large respectful: 1.389 respect: 1.203 slicked: 0.851 fluffy: 0.634 tasting: 0.634	Qwen 2.5 7B active: 0.736 solid: 0.475 suitable: 0.318 quality: 0.290 actively: 0.221	lightly: 0.847 kind: 0.362 quality: 0.311 active: 0.262 confident: 0.154
Pixtral 12B intimate: 1.328 beauty: 1.067 respectful: 0.825 gentle: 0.813 secured: 0.783 thoughtful: 0.652	respectful: 1.389 respect: 1.203 slicked: 0.851 fluffy: 0.634 tasting: 0.634 gentle: 0.453	Qwen 2.5 7B active: 0.736 solid: 0.475 suitable: 0.318 quality: 0.290 actively: 0.221 thoughtful: 0.164	lightly: 0.847 kind: 0.362 quality: 0.311 active: 0.262 confident: 0.154 neutral: 0.153
Pixtral 12B intimate: 1.328 beauty: 1.067 respectful: 0.825 gentle: 0.813 secured: 0.783 thoughtful: 0.652 suitable: 0.364	respectful: 1.389 respect: 1.203 slicked: 0.851 fluffy: 0.634 tasting: 0.634 gentle: 0.453 thoughtful: 0.412	Qwen 2.5 7B active: 0.736 solid: 0.475 suitable: 0.318 quality: 0.290 actively: 0.221 thoughtful: 0.164 neutral: 0.135	lightly: 0.847 kind: 0.362 quality: 0.311 active: 0.262 confident: 0.154 neutral: 0.153 warm: 0.082
Pixtral 12B intimate: 1.328 beauty: 1.067 respectful: 0.825 gentle: 0.813 secured: 0.783 thoughtful: 0.652 suitable: 0.364 active: 0.295	respectful: 1.389 respect: 1.203 slicked: 0.851 fluffy: 0.634 tasting: 0.634 gentle: 0.453 thoughtful: 0.412 grayish: 0.352	Qwen 2.5 7B active: 0.736 solid: 0.475 suitable: 0.318 quality: 0.290 actively: 0.221 thoughtful: 0.164 neutral: 0.135 plain: 0.018	lightly: 0.847 kind: 0.362 quality: 0.311 active: 0.262 confident: 0.154 neutral: 0.153 warm: 0.082 smooth: 0.030
Pixtral 12B intimate: 1.328 beauty: 1.067 respectful: 0.825 gentle: 0.813 secured: 0.783 thoughtful: 0.652 suitable: 0.364 active: 0.295 enthusiastic: 0.105	respectful: 1.389 respect: 1.203 slicked: 0.851 fluffy: 0.634 tasting: 0.634 gentle: 0.453 thoughtful: 0.412 grayish: 0.352 comfortable: 0.343 kind: 0.289	Qwen 2.5 7B active: 0.736 solid: 0.475 suitable: 0.318 quality: 0.290 actively: 0.221 thoughtful: 0.164 neutral: 0.135 plain: 0.018 fresh: -0.046	lightly: 0.847 kind: 0.362 quality: 0.311 active: 0.262 confident: 0.154 neutral: 0.153 warm: 0.082 smooth: 0.030 plain: 0.021
Pixtral 12B intimate: 1.328 beauty: 1.067 respectful: 0.825 gentle: 0.813 secured: 0.783 thoughtful: 0.652 suitable: 0.364 active: 0.295 enthusiastic: 0.105 actively: 0.081 neutral: 0.033	respectful: 1.389 respect: 1.203 slicked: 0.851 fluffy: 0.634 tasting: 0.634 gentle: 0.453 thoughtful: 0.412 grayish: 0.352 comfortable: 0.343	Qwen 2.5 7B active: 0.736 solid: 0.475 suitable: 0.318 quality: 0.290 actively: 0.221 thoughtful: 0.164 neutral: 0.135 plain: 0.018 fresh: -0.046 secured: -0.053	lightly: 0.847 kind: 0.362 quality: 0.311 active: 0.262 confident: 0.154 neutral: 0.153 warm: 0.082 smooth: 0.030 plain: 0.021 secured: -0.094
respectful: 0.825 gentle: 0.813 secured: 0.783 thoughtful: 0.652 suitable: 0.364 active: 0.295 enthusiastic: 0.105 actively: 0.081	respectful: 1.389 respect: 1.203 slicked: 0.851 fluffy: 0.634 tasting: 0.634 gentle: 0.453 thoughtful: 0.412 grayish: 0.352 comfortable: 0.343 kind: 0.289 pleasant: 0.207	Qwen 2.5 7B active: 0.736 solid: 0.475 suitable: 0.318 quality: 0.290 actively: 0.221 thoughtful: 0.164 neutral: 0.135 plain: 0.018 fresh: -0.046 secured: -0.053 confident: -0.187	lightly: 0.847 kind: 0.362 quality: 0.311 active: 0.262 confident: 0.154 neutral: 0.153 warm: 0.082 smooth: 0.030 plain: 0.021 secured: -0.094 fresh: -0.123
pixtral 12B intimate: 1.328 beauty: 1.067 respectful: 0.825 gentle: 0.813 secured: 0.783 thoughtful: 0.652 suitable: 0.364 active: 0.295 enthusiastic: 0.105 actively: 0.081 neutral: 0.033 plain: 0.032	respectful: 1.389 respect: 1.203 slicked: 0.851 fluffy: 0.634 tasting: 0.634 gentle: 0.453 thoughtful: 0.412 grayish: 0.352 comfortable: 0.343 kind: 0.289 pleasant: 0.207 lightly: 0.041	Qwen 2.5 7B active: 0.736 solid: 0.475 suitable: 0.318 quality: 0.290 actively: 0.221 thoughtful: 0.164 neutral: 0.135 plain: 0.018 fresh: -0.046 secured: -0.053 confident: -0.187 smooth: -0.241	lightly: 0.847 kind: 0.362 quality: 0.311 active: 0.262 confident: 0.154 neutral: 0.153 warm: 0.082 smooth: 0.030 plain: 0.021 secured: -0.094 fresh: -0.123 bright: -0.124
respectful: 0.825 gentle: 0.813 secured: 0.783 thoughtful: 0.652 suitable: 0.295 enthusiastic: 0.105 actively: 0.081 neutral: 0.032 fresh: 0.029	respectful: 1.389 respect: 1.203 slicked: 0.851 fluffy: 0.634 tasting: 0.634 gentle: 0.453 thoughtful: 0.412 grayish: 0.352 comfortable: 0.343 kind: 0.289 pleasant: 0.207 lightly: 0.041 plain: 0.008	Qwen 2.5 7B active: 0.736 solid: 0.475 suitable: 0.318 quality: 0.290 actively: 0.221 thoughtful: 0.164 neutral: 0.135 plain: 0.018 fresh: -0.046 secured: -0.053 confident: -0.187 smooth: -0.241 manner: -0.260	lightly: 0.847 kind: 0.362 quality: 0.311 active: 0.262 confident: 0.154 neutral: 0.153 warm: 0.082 smooth: 0.030 plain: 0.021 secured: -0.094 fresh: -0.123 bright: -0.124 gentle: -0.138
Pixtral 12B intimate: 1.328 beauty: 1.067 respectful: 0.825 gentle: 0.813 secured: 0.783 thoughtful: 0.652 suitable: 0.364 active: 0.295 enthusiastic: 0.105 actively: 0.081 neutral: 0.033 plain: 0.032 fresh: 0.029 warm: 0.014	respectful: 1.389 respect: 1.203 slicked: 0.851 fluffy: 0.634 tasting: 0.634 gentle: 0.453 thoughtful: 0.412 grayish: 0.352 comfortable: 0.343 kind: 0.289 pleasant: 0.207 lightly: 0.041 plain: 0.008 neutral: 0.005	Qwen 2.5 7B active: 0.736 solid: 0.475 suitable: 0.318 quality: 0.290 actively: 0.221 thoughtful: 0.164 neutral: 0.135 plain: 0.018 fresh: -0.046 secured: -0.053 confident: -0.187 smooth: -0.241 manner: -0.260 kind: -0.354	lightly: 0.847 kind: 0.362 quality: 0.311 active: 0.262 confident: 0.154 neutral: 0.153 warm: 0.082 smooth: 0.030 plain: 0.021 secured: -0.094 fresh: -0.123 bright: -0.124 gentle: -0.138 stylish: -0.151
Pixtral 12B intimate: 1.328 beauty: 1.067 respectful: 0.825 gentle: 0.813 secured: 0.783 thoughtful: 0.652 suitable: 0.364 active: 0.295 enthusiastic: 0.105 actively: 0.081 neutral: 0.033 plain: 0.032 fresh: 0.029 warm: 0.014 welcoming: -0.083	respectful: 1.389 respect: 1.203 slicked: 0.851 fluffy: 0.634 tasting: 0.634 gentle: 0.453 thoughtful: 0.412 grayish: 0.352 comfortable: 0.343 kind: 0.289 pleasant: 0.207 lightly: 0.041 plain: 0.008 neutral: 0.005 beauty: -0.003	Qwen 2.5 7B active: 0.736 solid: 0.475 suitable: 0.318 quality: 0.290 actively: 0.221 thoughtful: 0.164 neutral: 0.135 plain: 0.018 fresh: -0.046 secured: -0.053 confident: -0.187 smooth: -0.241 manner: -0.260 kind: -0.354 neutral: -0.403	lightly: 0.847 kind: 0.362 quality: 0.311 active: 0.262 confident: 0.154 neutral: 0.153 warm: 0.082 smooth: 0.030 plain: 0.021 secured: -0.094 fresh: -0.123 bright: -0.124 gentle: -0.138 stylish: -0.151 natural: -0.181
respectful: 0.825 gentle: 0.813 secured: 0.783 thoughtful: 0.652 suitable: 0.295 enthusiastic: 0.105 actively: 0.081 neutral: 0.033 plain: 0.032 fresh: 0.029 warm: 0.014 welcoming: -0.083 lively: -0.087	respectful: 1.389 respect: 1.203 slicked: 0.851 fluffy: 0.634 tasting: 0.634 gentle: 0.453 thoughtful: 0.412 grayish: 0.352 comfortable: 0.343 kind: 0.289 pleasant: 0.207 lightly: 0.041 plain: 0.008 neutral: 0.005 beauty: -0.003 actively: -0.029	Qwen 2.5 7B active: 0.736 solid: 0.475 suitable: 0.318 quality: 0.290 actively: 0.221 thoughtful: 0.164 neutral: 0.135 plain: 0.018 fresh: -0.046 secured: -0.053 confident: -0.187 smooth: -0.241 manner: -0.260 kind: -0.354 neutral: -0.403 bright: -0.483	lightly: 0.847 kind: 0.362 quality: 0.311 active: 0.262 confident: 0.154 neutral: 0.153 warm: 0.082 smooth: 0.030 plain: 0.021 secured: -0.094 fresh: -0.123 bright: -0.124 gentle: -0.138 stylish: -0.151 natural: -0.181 actively: -0.243
Pixtral 12B intimate: 1.328 beauty: 1.067 respectful: 0.825 gentle: 0.813 secured: 0.783 thoughtful: 0.652 suitable: 0.364 active: 0.295 enthusiastic: 0.105 actively: 0.081 neutral: 0.033 plain: 0.032 fresh: 0.029 warm: 0.014 welcoming: -0.083 lively: -0.087 manner: -0.112	respectful: 1.389 respect: 1.203 slicked: 0.851 fluffy: 0.634 tasting: 0.634 gentle: 0.453 thoughtful: 0.412 grayish: 0.352 comfortable: 0.343 kind: 0.289 pleasant: 0.207 lightly: 0.041 plain: 0.008 neutral: 0.005 beauty: -0.003 actively: -0.029 fresh: -0.050	Qwen 2.5 7B active: 0.736 solid: 0.475 suitable: 0.318 quality: 0.290 actively: 0.221 thoughtful: 0.164 neutral: 0.135 plain: 0.018 fresh: -0.046 secured: -0.053 confident: -0.187 smooth: -0.241 manner: -0.260 kind: -0.354 neutral: -0.403 bright: -0.483 stylish: -1.134	lightly: 0.847 kind: 0.362 quality: 0.311 active: 0.262 confident: 0.154 neutral: 0.153 warm: 0.082 smooth: 0.030 plain: 0.021 secured: -0.094 fresh: -0.123 bright: -0.124 gentle: -0.138 stylish: -0.151 natural: -0.181 actively: -0.243 manner: -0.328

Table 26: Top 20 warmth-related words associated with 'Indian'

Llama 3.2 11B	Llama 3.2 90B	InstructBLIP 7B	InstructBLIP 13B
slicked: 1.805	slicked: 1.277	pleasant: 1.104	suitable: 0.696
welcoming: 0.694	knowledgeable: 1.037	warm: 0.926	delicious: 0.651
friendly: 0.535	welcoming: 0.919	talented: 0.696	comfortable: 0.596
trustworthiness: 0.457	good: 0.486	comfort: 0.691	secure: 0.449
reliable: 0.413	secured: 0.463	good: 0.461	active: 0.161
manner: 0.400	friendliness: 0.413	lively: 0.409	strong: 0.137
fluffy: 0.372	comfortable: 0.343	respected: 0.348	enjoying: 0.109
quality: 0.362	charity: 0.317	appealing: 0.327	stylish: 0.107
enjoys: 0.350	natural: 0.257	comfortable: 0.320	confident: 0.092
stylish: 0.342	passionate: 0.223	plain: 0.316	taste: 0.060
gentle: 0.334	warmth: 0.217	welcoming: 0.267	manner: 0.049
suitable: 0.331	smooth: 0.178	appreciation: 0.267	neutral: 0.026
delicious: 0.297	manner: 0.126	enjoying: 0.248	smooth: -0.036
warm: 0.257	confident: 0.094	quality: 0.189	appealing: -0.120
mutual: 0.234	plain: 0.094	safe: 0.140	welcoming: -0.292
secured: 0.225	enjoying: 0.031	confident: 0.104	
confident: 0.219	neutral: -0.021	actively: 0.096	
intimate: 0.191	fresh: -0.022	neutral: 0.078	
comfortable: 0.153	solid: -0.031	enjoys: 0.074	
actively: 0.139	attired: -0.051	delicious: 0.054	
Pixtral 12B	Pixtral Large	Qwen 2.5 7B	Qwen 2.5 72B
	I moral Barge	C oll = 00	Q Well 2.0 72D
	- -		
lively: 1.046	thoughtfulness: 1.208	enjoying: 0.730	pleasant: 1.106
lively: 1.046 comfortable: 0.802	thoughtfulness: 1.208 attitude: 1.036	enjoying: 0.730 secured: 0.500	pleasant: 1.106 quality: 0.541
lively: 1.046 comfortable: 0.802 lightly: 0.712	thoughtfulness: 1.208 attitude: 1.036 strong: 0.967	enjoying: 0.730 secured: 0.500 welcoming: 0.489	pleasant: 1.106 quality: 0.541 suitable: 0.527
lively: 1.046 comfortable: 0.802 lightly: 0.712 enjoying: 0.661	thoughtfulness: 1.208 attitude: 1.036 strong: 0.967 enthusiastic: 0.655	enjoying: 0.730 secured: 0.500 welcoming: 0.489 actively: 0.473	pleasant: 1.106 quality: 0.541 suitable: 0.527 cheerful: 0.504
lively: 1.046 comfortable: 0.802 lightly: 0.712 enjoying: 0.661 pleasant: 0.471	thoughtfulness: 1.208 attitude: 1.036 strong: 0.967 enthusiastic: 0.655 grayish: 0.655	enjoying: 0.730 secured: 0.500 welcoming: 0.489 actively: 0.473 friendly: 0.420	pleasant: 1.106 quality: 0.541 suitable: 0.527 cheerful: 0.504 friendly: 0.434
lively: 1.046 comfortable: 0.802 lightly: 0.712 enjoying: 0.661 pleasant: 0.471 smooth: 0.445	thoughtfulness: 1.208 attitude: 1.036 strong: 0.967 enthusiastic: 0.655 grayish: 0.655 fluffy: 0.639	enjoying: 0.730 secured: 0.500 welcoming: 0.489 actively: 0.473 friendly: 0.420 kind: 0.336	pleasant: 1.106 quality: 0.541 suitable: 0.527 cheerful: 0.504 friendly: 0.434 fluffy: 0.404
lively: 1.046 comfortable: 0.802 lightly: 0.712 enjoying: 0.661 pleasant: 0.471 smooth: 0.445 natural: 0.364	thoughtfulness: 1.208 attitude: 1.036 strong: 0.967 enthusiastic: 0.655 grayish: 0.655 fluffy: 0.639 lively: 0.615	enjoying: 0.730 secured: 0.500 welcoming: 0.489 actively: 0.473 friendly: 0.420 kind: 0.336 stylish: 0.282	pleasant: 1.106 quality: 0.541 suitable: 0.527 cheerful: 0.504 friendly: 0.434 fluffy: 0.404 gentle: 0.354
lively: 1.046 comfortable: 0.802 lightly: 0.712 enjoying: 0.661 pleasant: 0.471 smooth: 0.445 natural: 0.364 active: 0.291	thoughtfulness: 1.208 attitude: 1.036 strong: 0.967 enthusiastic: 0.655 grayish: 0.655 fluffy: 0.639 lively: 0.615 appealing: 0.586	enjoying: 0.730 secured: 0.500 welcoming: 0.489 actively: 0.473 friendly: 0.420 kind: 0.336 stylish: 0.282 thoughtful: 0.202	pleasant: 1.106 quality: 0.541 suitable: 0.527 cheerful: 0.504 friendly: 0.434 fluffy: 0.404 gentle: 0.354 bright: 0.250
lively: 1.046 comfortable: 0.802 lightly: 0.712 enjoying: 0.661 pleasant: 0.471 smooth: 0.445 natural: 0.364 active: 0.291 confident: 0.176	thoughtfulness: 1.208 attitude: 1.036 strong: 0.967 enthusiastic: 0.655 grayish: 0.655 fluffy: 0.639 lively: 0.615 appealing: 0.586 comfortable: 0.425	enjoying: 0.730 secured: 0.500 welcoming: 0.489 actively: 0.473 friendly: 0.420 kind: 0.336 stylish: 0.282 thoughtful: 0.202 confident: 0.181	pleasant: 1.106 quality: 0.541 suitable: 0.527 cheerful: 0.504 friendly: 0.434 fluffy: 0.404 gentle: 0.354 bright: 0.250 stylish: 0.229
lively: 1.046 comfortable: 0.802 lightly: 0.712 enjoying: 0.661 pleasant: 0.471 smooth: 0.445 natural: 0.364 active: 0.291 confident: 0.176 warm: 0.174	thoughtfulness: 1.208 attitude: 1.036 strong: 0.967 enthusiastic: 0.655 grayish: 0.655 fluffy: 0.639 lively: 0.615 appealing: 0.586 comfortable: 0.425 safely: 0.364	enjoying: 0.730 secured: 0.500 welcoming: 0.489 actively: 0.473 friendly: 0.420 kind: 0.336 stylish: 0.282 thoughtful: 0.202 confident: 0.181 neutral: 0.053	pleasant: 1.106 quality: 0.541 suitable: 0.527 cheerful: 0.504 friendly: 0.434 fluffy: 0.404 gentle: 0.354 bright: 0.250 stylish: 0.229 actively: 0.193
lively: 1.046 comfortable: 0.802 lightly: 0.712 enjoying: 0.661 pleasant: 0.471 smooth: 0.445 natural: 0.364 active: 0.291 confident: 0.176 warm: 0.174 manner: 0.162	thoughtfulness: 1.208 attitude: 1.036 strong: 0.967 enthusiastic: 0.655 grayish: 0.655 fluffy: 0.639 lively: 0.615 appealing: 0.586 comfortable: 0.425 safely: 0.364 enjoying: 0.334	enjoying: 0.730 secured: 0.500 welcoming: 0.489 actively: 0.473 friendly: 0.420 kind: 0.336 stylish: 0.282 thoughtful: 0.202 confident: 0.181 neutral: 0.053 bright: 0.029	pleasant: 1.106 quality: 0.541 suitable: 0.527 cheerful: 0.504 friendly: 0.434 fluffy: 0.404 gentle: 0.354 bright: 0.250 stylish: 0.229 actively: 0.193 neutral: 0.181
lively: 1.046 comfortable: 0.802 lightly: 0.712 enjoying: 0.661 pleasant: 0.471 smooth: 0.445 natural: 0.364 active: 0.291 confident: 0.176 warm: 0.174 manner: 0.162 friendly: 0.128	thoughtfulness: 1.208 attitude: 1.036 strong: 0.967 enthusiastic: 0.655 grayish: 0.655 fluffy: 0.639 lively: 0.615 appealing: 0.586 comfortable: 0.425 safely: 0.364 enjoying: 0.334 hot: 0.301	enjoying: 0.730 secured: 0.500 welcoming: 0.489 actively: 0.473 friendly: 0.420 kind: 0.336 stylish: 0.282 thoughtful: 0.202 confident: 0.181 neutral: 0.053 bright: 0.029 plain: -0.004	pleasant: 1.106 quality: 0.541 suitable: 0.527 cheerful: 0.504 friendly: 0.434 fluffy: 0.404 gentle: 0.354 bright: 0.250 stylish: 0.229 actively: 0.193 neutral: 0.181 lively: 0.165
lively: 1.046 comfortable: 0.802 lightly: 0.712 enjoying: 0.661 pleasant: 0.471 smooth: 0.445 natural: 0.364 active: 0.291 confident: 0.176 warm: 0.174 manner: 0.162 friendly: 0.128 enthusiastic: 0.101	thoughtfulness: 1.208 attitude: 1.036 strong: 0.967 enthusiastic: 0.655 grayish: 0.655 fluffy: 0.639 lively: 0.615 appealing: 0.586 comfortable: 0.425 safely: 0.364 enjoying: 0.334 hot: 0.301 prayerful: 0.264	enjoying: 0.730 secured: 0.500 welcoming: 0.489 actively: 0.473 friendly: 0.420 kind: 0.336 stylish: 0.282 thoughtful: 0.202 confident: 0.181 neutral: 0.053 bright: 0.029 plain: -0.004 fresh: -0.008	pleasant: 1.106 quality: 0.541 suitable: 0.527 cheerful: 0.504 friendly: 0.434 fluffy: 0.404 gentle: 0.354 bright: 0.250 stylish: 0.229 actively: 0.193 neutral: 0.181 lively: 0.165 smooth: 0.124
lively: 1.046 comfortable: 0.802 lightly: 0.712 enjoying: 0.661 pleasant: 0.471 smooth: 0.445 natural: 0.364 active: 0.291 confident: 0.176 warm: 0.174 manner: 0.162 friendly: 0.128 enthusiastic: 0.101 cheerful: 0.070	thoughtfulness: 1.208 attitude: 1.036 strong: 0.967 enthusiastic: 0.655 grayish: 0.655 fluffy: 0.639 lively: 0.615 appealing: 0.586 comfortable: 0.425 safely: 0.364 enjoying: 0.334 hot: 0.301 prayerful: 0.264 active: 0.264	enjoying: 0.730 secured: 0.500 welcoming: 0.489 actively: 0.473 friendly: 0.420 kind: 0.336 stylish: 0.282 thoughtful: 0.202 confident: 0.181 neutral: 0.053 bright: 0.029 plain: -0.004 fresh: -0.008 solid: -0.203	pleasant: 1.106 quality: 0.541 suitable: 0.527 cheerful: 0.504 friendly: 0.434 fluffy: 0.404 gentle: 0.354 bright: 0.250 stylish: 0.229 actively: 0.193 neutral: 0.181 lively: 0.165 smooth: 0.124 manner: 0.117
lively: 1.046 comfortable: 0.802 lightly: 0.712 enjoying: 0.661 pleasant: 0.471 smooth: 0.445 natural: 0.364 active: 0.291 confident: 0.176 warm: 0.174 manner: 0.162 friendly: 0.128 enthusiastic: 0.101 cheerful: 0.070 stylish: 0.053	thoughtfulness: 1.208 attitude: 1.036 strong: 0.967 enthusiastic: 0.655 grayish: 0.655 fluffy: 0.639 lively: 0.615 appealing: 0.586 comfortable: 0.425 safely: 0.364 enjoying: 0.334 hot: 0.301 prayerful: 0.264 active: 0.264 good: 0.215	enjoying: 0.730 secured: 0.500 welcoming: 0.489 actively: 0.473 friendly: 0.420 kind: 0.336 stylish: 0.282 thoughtful: 0.202 confident: 0.181 neutral: 0.053 bright: 0.029 plain: -0.004 fresh: -0.008 solid: -0.203 smooth: -0.203	pleasant: 1.106 quality: 0.541 suitable: 0.527 cheerful: 0.504 friendly: 0.434 fluffy: 0.404 gentle: 0.354 bright: 0.250 stylish: 0.229 actively: 0.193 neutral: 0.181 lively: 0.165 smooth: 0.124 manner: 0.117 confident: 0.112
lively: 1.046 comfortable: 0.802 lightly: 0.712 enjoying: 0.661 pleasant: 0.471 smooth: 0.445 natural: 0.364 active: 0.291 confident: 0.176 warm: 0.174 manner: 0.162 friendly: 0.128 enthusiastic: 0.101 cheerful: 0.070 stylish: 0.053 plain: 0.004	thoughtfulness: 1.208 attitude: 1.036 strong: 0.967 enthusiastic: 0.655 grayish: 0.655 fluffy: 0.639 lively: 0.615 appealing: 0.586 comfortable: 0.425 safely: 0.364 enjoying: 0.334 hot: 0.301 prayerful: 0.264 active: 0.264 good: 0.215 slicked: 0.211	enjoying: 0.730 secured: 0.500 welcoming: 0.489 actively: 0.473 friendly: 0.420 kind: 0.336 stylish: 0.282 thoughtful: 0.202 confident: 0.181 neutral: 0.053 bright: 0.029 plain: -0.004 fresh: -0.008 solid: -0.203 smooth: -0.203 manner: -0.327	pleasant: 1.106 quality: 0.541 suitable: 0.527 cheerful: 0.504 friendly: 0.434 fluffy: 0.404 gentle: 0.354 bright: 0.250 stylish: 0.229 actively: 0.193 neutral: 0.181 lively: 0.165 smooth: 0.124 manner: 0.117 confident: 0.112 good: 0.089
lively: 1.046 comfortable: 0.802 lightly: 0.712 enjoying: 0.661 pleasant: 0.471 smooth: 0.445 natural: 0.364 active: 0.291 confident: 0.176 warm: 0.174 manner: 0.162 friendly: 0.128 enthusiastic: 0.101 cheerful: 0.070 stylish: 0.053 plain: 0.004 bright: -0.045	thoughtfulness: 1.208 attitude: 1.036 strong: 0.967 enthusiastic: 0.655 grayish: 0.655 fluffy: 0.639 lively: 0.615 appealing: 0.586 comfortable: 0.425 safely: 0.364 enjoying: 0.334 hot: 0.301 prayerful: 0.264 active: 0.264 good: 0.215 slicked: 0.211 respect: 0.208	enjoying: 0.730 secured: 0.500 welcoming: 0.489 actively: 0.473 friendly: 0.420 kind: 0.336 stylish: 0.282 thoughtful: 0.202 confident: 0.181 neutral: 0.053 bright: 0.029 plain: -0.004 fresh: -0.008 solid: -0.203 smooth: -0.203	pleasant: 1.106 quality: 0.541 suitable: 0.527 cheerful: 0.504 friendly: 0.434 fluffy: 0.404 gentle: 0.354 bright: 0.250 stylish: 0.229 actively: 0.193 neutral: 0.181 lively: 0.165 smooth: 0.124 manner: 0.117 confident: 0.112 good: 0.089 plain: -0.001
lively: 1.046 comfortable: 0.802 lightly: 0.712 enjoying: 0.661 pleasant: 0.471 smooth: 0.445 natural: 0.364 active: 0.291 confident: 0.176 warm: 0.174 manner: 0.162 friendly: 0.128 enthusiastic: 0.101 cheerful: 0.070 stylish: 0.053 plain: 0.004 bright: -0.045 actively: -0.049	thoughtfulness: 1.208 attitude: 1.036 strong: 0.967 enthusiastic: 0.655 grayish: 0.655 fluffy: 0.639 lively: 0.615 appealing: 0.586 comfortable: 0.425 safely: 0.364 enjoying: 0.334 hot: 0.301 prayerful: 0.264 active: 0.264 good: 0.215 slicked: 0.211 respect: 0.208 secured: 0.169	enjoying: 0.730 secured: 0.500 welcoming: 0.489 actively: 0.473 friendly: 0.420 kind: 0.336 stylish: 0.282 thoughtful: 0.202 confident: 0.181 neutral: 0.053 bright: 0.029 plain: -0.004 fresh: -0.008 solid: -0.203 smooth: -0.203 manner: -0.327	pleasant: 1.106 quality: 0.541 suitable: 0.527 cheerful: 0.504 friendly: 0.434 fluffy: 0.404 gentle: 0.354 bright: 0.250 stylish: 0.229 actively: 0.193 neutral: 0.181 lively: 0.165 smooth: 0.124 manner: 0.117 confident: 0.112 good: 0.089 plain: -0.001 fresh: -0.008
lively: 1.046 comfortable: 0.802 lightly: 0.712 enjoying: 0.661 pleasant: 0.471 smooth: 0.445 natural: 0.364 active: 0.291 confident: 0.176 warm: 0.174 manner: 0.162 friendly: 0.128 enthusiastic: 0.101 cheerful: 0.070 stylish: 0.053 plain: 0.004 bright: -0.045	thoughtfulness: 1.208 attitude: 1.036 strong: 0.967 enthusiastic: 0.655 grayish: 0.655 fluffy: 0.639 lively: 0.615 appealing: 0.586 comfortable: 0.425 safely: 0.364 enjoying: 0.334 hot: 0.301 prayerful: 0.264 active: 0.264 good: 0.215 slicked: 0.211 respect: 0.208	enjoying: 0.730 secured: 0.500 welcoming: 0.489 actively: 0.473 friendly: 0.420 kind: 0.336 stylish: 0.282 thoughtful: 0.202 confident: 0.181 neutral: 0.053 bright: 0.029 plain: -0.004 fresh: -0.008 solid: -0.203 smooth: -0.203 manner: -0.327	pleasant: 1.106 quality: 0.541 suitable: 0.527 cheerful: 0.504 friendly: 0.434 fluffy: 0.404 gentle: 0.354 bright: 0.250 stylish: 0.229 actively: 0.193 neutral: 0.181 lively: 0.165 smooth: 0.124 manner: 0.117 confident: 0.112 good: 0.089 plain: -0.001

Table 27: Top 20 warmth-related words associated with 'Latino'

Llama 3.2 11B	Llama 3.2 90B	InstructBLIP 7B	InstructBLIP 13B
attractive: 1.098	respectful: 1.472	welcoming: 0.558	natural: 1.214
active: 1.098	fine: 1.432	beauty: 0.399	beauty: 1.008
trustworthiness: 0.999	bright: 0.794	friendly: 0.348	taste: 0.735
prayerful: 0.818	quality: 0.695	respect: 0.315	secure: 0.639
mutual: 0.539	actively: 0.516	plain: 0.308	strong: 0.396
comfort: 0.477	fresh: 0.502	active: 0.259	actively: 0.342
authenticity: 0.468	warm: 0.418	enjoys: 0.172	stylish: 0.310
respectful: 0.414	stylish: 0.373	smooth: 0.166	welcoming: 0.191
passionate: 0.401	beauty: 0.355	stylish: 0.145	friendly: 0.107
respect: 0.399	friendly: 0.354	passionate: 0.131	delicious: 0.026
actively: 0.398	solid: 0.306	manner: 0.130	manner: -0.012
gentle: 0.345	kind: 0.283	fresh: 0.129	confident: -0.049
warm: 0.308	passionate: 0.262	actively: 0.125	neutral: -0.076
beauty: 0.298	comfortable: 0.176	lively: 0.078	enjoying: -0.295
welcoming: 0.294	attired: 0.138	appealing: 0.023	appealing: -0.428
suitable: 0.221	friendliness: 0.130	delicious: 0.009	suitable: -0.630
secured: 0.209	plain: 0.086	quality: -0.082	
respected: 0.205	confident: 0.041	confident: -0.110	
enjoying: 0.197	warmth: 0.008	respected: -0.120	
talented: 0.191	neutral: 0.007	secure: -0.135	
Pixtral 12B	Pixtral Large	Qwen 2.5 7B	Qwen 2.5 72B
respectful: 1.090	secured: 0.932	tasting: 1.218	secured: 1.231
	50001001 01702	1 4454115. 1.210	Secured. 1.231
gentle: 1.008	prayerful: 0.761	good: 0.902	pleasant: 1.121
•			
gentle: 1.008	prayerful: 0.761	good: 0.902	pleasant: 1.121
gentle: 1.008 secured: 0.679	prayerful: 0.761 fine: 0.699	good: 0.902 thoughtful: 0.178	pleasant: 1.121 enjoying: 1.066
gentle: 1.008 secured: 0.679 good: 0.553	prayerful: 0.761 fine: 0.699 secure: 0.375	good: 0.902 thoughtful: 0.178 kind: 0.174	pleasant: 1.121 enjoying: 1.066 welcoming: 0.869
gentle: 1.008 secured: 0.679 good: 0.553 enjoying: 0.515	prayerful: 0.761 fine: 0.699 secure: 0.375 solid: 0.317	good: 0.902 thoughtful: 0.178 kind: 0.174 fresh: 0.147	pleasant: 1.121 enjoying: 1.066 welcoming: 0.869 comfortable: 0.668
gentle: 1.008 secured: 0.679 good: 0.553 enjoying: 0.515 welcoming: 0.385	prayerful: 0.761 fine: 0.699 secure: 0.375 solid: 0.317 rugged: 0.312	good: 0.902 thoughtful: 0.178 kind: 0.174 fresh: 0.147 confident: 0.124	pleasant: 1.121 enjoying: 1.066 welcoming: 0.869 comfortable: 0.668 gentle: 0.562
gentle: 1.008 secured: 0.679 good: 0.553 enjoying: 0.515 welcoming: 0.385 warm: 0.368	prayerful: 0.761 fine: 0.699 secure: 0.375 solid: 0.317 rugged: 0.312 smooth: 0.276	good: 0.902 thoughtful: 0.178 kind: 0.174 fresh: 0.147 confident: 0.124 plain: 0.049	pleasant: 1.121 enjoying: 1.066 welcoming: 0.869 comfortable: 0.668 gentle: 0.562 natural: 0.326
gentle: 1.008 secured: 0.679 good: 0.553 enjoying: 0.515 welcoming: 0.385 warm: 0.368 smooth: 0.364	prayerful: 0.761 fine: 0.699 secure: 0.375 solid: 0.317 rugged: 0.312 smooth: 0.276 thoughtful: 0.276	good: 0.902 thoughtful: 0.178 kind: 0.174 fresh: 0.147 confident: 0.124 plain: 0.049 friendly: 0.024	pleasant: 1.121 enjoying: 1.066 welcoming: 0.869 comfortable: 0.668 gentle: 0.562 natural: 0.326 manner: 0.074
gentle: 1.008 secured: 0.679 good: 0.553 enjoying: 0.515 welcoming: 0.385 warm: 0.368 smooth: 0.364 lightly: 0.356	prayerful: 0.761 fine: 0.699 secure: 0.375 solid: 0.317 rugged: 0.312 smooth: 0.276 thoughtful: 0.276 welcoming: 0.160	good: 0.902 thoughtful: 0.178 kind: 0.174 fresh: 0.147 confident: 0.124 plain: 0.049 friendly: 0.024 neutral: -0.000	pleasant: 1.121 enjoying: 1.066 welcoming: 0.869 comfortable: 0.668 gentle: 0.562 natural: 0.326 manner: 0.074 quality: 0.070
gentle: 1.008 secured: 0.679 good: 0.553 enjoying: 0.515 welcoming: 0.385 warm: 0.368 smooth: 0.364 lightly: 0.356 pleasant: 0.214	prayerful: 0.761 fine: 0.699 secure: 0.375 solid: 0.317 rugged: 0.312 smooth: 0.276 thoughtful: 0.276 welcoming: 0.160 enthusiastic: 0.126	good: 0.902 thoughtful: 0.178 kind: 0.174 fresh: 0.147 confident: 0.124 plain: 0.049 friendly: 0.024 neutral: -0.000 smooth: -0.075	pleasant: 1.121 enjoying: 1.066 welcoming: 0.869 comfortable: 0.668 gentle: 0.562 natural: 0.326 manner: 0.074 quality: 0.070 plain: 0.058
gentle: 1.008 secured: 0.679 good: 0.553 enjoying: 0.515 welcoming: 0.385 warm: 0.368 smooth: 0.364 lightly: 0.356 pleasant: 0.214 fluffy: 0.191	prayerful: 0.761 fine: 0.699 secure: 0.375 solid: 0.317 rugged: 0.312 smooth: 0.276 thoughtful: 0.276 welcoming: 0.160 enthusiastic: 0.126 confident: 0.118	good: 0.902 thoughtful: 0.178 kind: 0.174 fresh: 0.147 confident: 0.124 plain: 0.049 friendly: 0.024 neutral: -0.000 smooth: -0.075 active: -0.098	pleasant: 1.121 enjoying: 1.066 welcoming: 0.869 comfortable: 0.668 gentle: 0.562 natural: 0.326 manner: 0.074 quality: 0.070 plain: 0.058 fresh: 0.024
gentle: 1.008 secured: 0.679 good: 0.553 enjoying: 0.515 welcoming: 0.385 warm: 0.368 smooth: 0.364 lightly: 0.356 pleasant: 0.214 fluffy: 0.191 bright: 0.176	prayerful: 0.761 fine: 0.699 secure: 0.375 solid: 0.317 rugged: 0.312 smooth: 0.276 thoughtful: 0.276 welcoming: 0.160 enthusiastic: 0.126 confident: 0.118 safely: 0.112	good: 0.902 thoughtful: 0.178 kind: 0.174 fresh: 0.147 confident: 0.124 plain: 0.049 friendly: 0.024 neutral: -0.000 smooth: -0.075 active: -0.098 stylish: -0.120	pleasant: 1.121 enjoying: 1.066 welcoming: 0.869 comfortable: 0.668 gentle: 0.562 natural: 0.326 manner: 0.074 quality: 0.070 plain: 0.058 fresh: 0.024 active: 0.021
gentle: 1.008 secured: 0.679 good: 0.553 enjoying: 0.515 welcoming: 0.385 warm: 0.368 smooth: 0.364 lightly: 0.356 pleasant: 0.214 fluffy: 0.191 bright: 0.176 friendly: 0.168	prayerful: 0.761 fine: 0.699 secure: 0.375 solid: 0.317 rugged: 0.312 smooth: 0.276 thoughtful: 0.276 welcoming: 0.160 enthusiastic: 0.126 confident: 0.118 safely: 0.112 quality: 0.095	good: 0.902 thoughtful: 0.178 kind: 0.174 fresh: 0.147 confident: 0.124 plain: 0.049 friendly: 0.024 neutral: -0.000 smooth: -0.075 active: -0.098 stylish: -0.120 manner: -0.181	pleasant: 1.121 enjoying: 1.066 welcoming: 0.869 comfortable: 0.668 gentle: 0.562 natural: 0.326 manner: 0.074 quality: 0.070 plain: 0.058 fresh: 0.024 active: 0.021 friendly: -0.029
gentle: 1.008 secured: 0.679 good: 0.553 enjoying: 0.515 welcoming: 0.385 warm: 0.368 smooth: 0.364 lightly: 0.356 pleasant: 0.214 fluffy: 0.191 bright: 0.176 friendly: 0.168 quality: 0.167	prayerful: 0.761 fine: 0.699 secure: 0.375 solid: 0.317 rugged: 0.312 smooth: 0.276 thoughtful: 0.276 welcoming: 0.160 enthusiastic: 0.126 confident: 0.118 safely: 0.112 quality: 0.095 actively: 0.088	good: 0.902 thoughtful: 0.178 kind: 0.174 fresh: 0.147 confident: 0.124 plain: 0.049 friendly: 0.024 neutral: -0.000 smooth: -0.075 active: -0.098 stylish: -0.120 manner: -0.181 bright: -0.247	pleasant: 1.121 enjoying: 1.066 welcoming: 0.869 comfortable: 0.668 gentle: 0.562 natural: 0.326 manner: 0.074 quality: 0.070 plain: 0.058 fresh: 0.024 active: 0.021 friendly: -0.029 neutral: -0.033
gentle: 1.008 secured: 0.679 good: 0.553 enjoying: 0.515 welcoming: 0.385 warm: 0.368 smooth: 0.364 lightly: 0.356 pleasant: 0.214 fluffy: 0.191 bright: 0.176 friendly: 0.168 quality: 0.167 active: 0.160	prayerful: 0.761 fine: 0.699 secure: 0.375 solid: 0.317 rugged: 0.312 smooth: 0.276 thoughtful: 0.276 welcoming: 0.160 enthusiastic: 0.126 confident: 0.118 safely: 0.112 quality: 0.095 actively: 0.088 active: 0.083	good: 0.902 thoughtful: 0.178 kind: 0.174 fresh: 0.147 confident: 0.124 plain: 0.049 friendly: 0.024 neutral: -0.000 smooth: -0.075 active: -0.098 stylish: -0.120 manner: -0.181 bright: -0.247 secured: -0.261	pleasant: 1.121 enjoying: 1.066 welcoming: 0.869 comfortable: 0.668 gentle: 0.562 natural: 0.326 manner: 0.074 quality: 0.070 plain: 0.058 fresh: 0.024 active: 0.021 friendly: -0.029 neutral: -0.033 smooth: -0.041
gentle: 1.008 secured: 0.679 good: 0.553 enjoying: 0.515 welcoming: 0.385 warm: 0.368 smooth: 0.364 lightly: 0.356 pleasant: 0.214 fluffy: 0.191 bright: 0.176 friendly: 0.168 quality: 0.167 active: 0.160 cheerful: 0.063	prayerful: 0.761 fine: 0.699 secure: 0.375 solid: 0.317 rugged: 0.312 smooth: 0.276 thoughtful: 0.276 welcoming: 0.160 enthusiastic: 0.126 confident: 0.118 safely: 0.112 quality: 0.095 actively: 0.088 active: 0.083 friendly: 0.068	good: 0.902 thoughtful: 0.178 kind: 0.174 fresh: 0.147 confident: 0.124 plain: 0.049 friendly: 0.024 neutral: -0.000 smooth: -0.075 active: -0.098 stylish: -0.120 manner: -0.181 bright: -0.247 secured: -0.261 suitable: -0.346	pleasant: 1.121 enjoying: 1.066 welcoming: 0.869 comfortable: 0.668 gentle: 0.562 natural: 0.326 manner: 0.074 quality: 0.070 plain: 0.058 fresh: 0.024 active: 0.021 friendly: -0.029 neutral: -0.033 smooth: -0.041 cheerful: -0.066
gentle: 1.008 secured: 0.679 good: 0.553 enjoying: 0.515 welcoming: 0.385 warm: 0.368 smooth: 0.364 lightly: 0.356 pleasant: 0.214 fluffy: 0.191 bright: 0.176 friendly: 0.168 quality: 0.167 active: 0.160 cheerful: 0.063 actively: 0.015	prayerful: 0.761 fine: 0.699 secure: 0.375 solid: 0.317 rugged: 0.312 smooth: 0.276 thoughtful: 0.276 welcoming: 0.160 enthusiastic: 0.126 confident: 0.118 safely: 0.112 quality: 0.095 actively: 0.088 active: 0.083 friendly: 0.068 cheerful: 0.058	good: 0.902 thoughtful: 0.178 kind: 0.174 fresh: 0.147 confident: 0.124 plain: 0.049 friendly: 0.024 neutral: -0.000 smooth: -0.075 active: -0.098 stylish: -0.120 manner: -0.181 bright: -0.247 secured: -0.261 suitable: -0.346 natural: -0.389	pleasant: 1.121 enjoying: 1.066 welcoming: 0.869 comfortable: 0.668 gentle: 0.562 natural: 0.326 manner: 0.074 quality: 0.070 plain: 0.058 fresh: 0.024 active: 0.021 friendly: -0.029 neutral: -0.033 smooth: -0.041 cheerful: -0.066 stylish: -0.097

Table 28: Top 20 warmth-related words associated with 'Middle Eastern'

Llama 3.2 11B	Llama 3.2 90B	InstructBLIP 7B	InstructBLIP 13B
tasting: 1.644	cheerful: 2.142	bright: 0.908	smooth: 0.440
gratitude: 1.381	lively: 1.027	cheerful: 0.848	strong: 0.390
rugged: 1.016	committed: 0.946	safely: 0.653	suitable: 0.364
fine: 0.861	welcoming: 0.668	suitable: 0.405	appealing: 0.336
good: 0.693	strong: 0.563	appreciation: 0.249	comfortable: 0.324
safe: 0.671	good: 0.458	committed: 0.249	enjoying: 0.225
committed: 0.612	natural: 0.454	secure: 0.217	welcoming: 0.185
freshness: 0.612	friendly: 0.405	talented: 0.192	confident: 0.071
secure: 0.575	secured: 0.405	enthusiastic: 0.126	actively: -0.060
friendliness: 0.435	bright: 0.298	manner: 0.119	neutral: -0.073
natural: 0.241	smooth: 0.290	comfortable: 0.109	stylish: -0.144
quality: 0.236	manner: 0.279	appealing: 0.108	delicious: -0.220
attired: 0.235	stylish: 0.166	active: 0.097	manner: -0.310
calmness: 0.230	gentle: 0.162	passionate: 0.034	
appreciation: 0.140	attired: 0.152	stylish: 0.029	
authenticity: 0.140	knowledgeable: 0.149	natural: 0.026	
respect: 0.138	beauty: 0.065	delicious: 0.017	
trust: 0.131	friendliness: 0.063	safe: 0.001	
	61 4 0 057	quality: 0.001	
talented: 0.126	confident: 0.057	quality: 0.001	
knowledgeable: 0.110	warm: 0.013	fresh: -0.062	
		^ *	Qwen 2.5 72B
knowledgeable: 0.110 Pixtral 12B	warm: 0.013 Pixtral Large	fresh: -0.062 Qwen 2.5 7B	Qwen 2.5 72B comfortable: 1.055
knowledgeable: 0.110 Pixtral 12B strong: 1.351	warm: 0.013 Pixtral Large knowledgeable: 1.169	fresh: -0.062	comfortable: 1.055
Pixtral 12B strong: 1.351 good: 0.824	warm: 0.013 Pixtral Large	fresh: -0.062 Qwen 2.5 7B welcoming: 0.684	
Pixtral 12B strong: 1.351 good: 0.824 quality: 0.469	warm: 0.013 Pixtral Large knowledgeable: 1.169 rugged: 0.963	fresh: -0.062 Qwen 2.5 7B welcoming: 0.684 cheerful: 0.651	comfortable: 1.055 strong: 0.994 natural: 0.739
Pixtral 12B strong: 1.351 good: 0.824	warm: 0.013 Pixtral Large knowledgeable: 1.169 rugged: 0.963 hot: 0.848 solid: 0.782	fresh: -0.062 Qwen 2.5 7B welcoming: 0.684 cheerful: 0.651 active: 0.577 natural: 0.482	comfortable: 1.055 strong: 0.994 natural: 0.739 fluffy: 0.543
Pixtral 12B strong: 1.351 good: 0.824 quality: 0.469 fluffy: 0.364	warm: 0.013 Pixtral Large knowledgeable: 1.169 rugged: 0.963 hot: 0.848 solid: 0.782 heated: 0.700	fresh: -0.062 Qwen 2.5 7B welcoming: 0.684 cheerful: 0.651 active: 0.577 natural: 0.482 actively: 0.446	comfortable: 1.055 strong: 0.994 natural: 0.739 fluffy: 0.543 welcoming: 0.520
Pixtral 12B strong: 1.351 good: 0.824 quality: 0.469 fluffy: 0.364 manner: 0.294	warm: 0.013 Pixtral Large knowledgeable: 1.169 rugged: 0.963 hot: 0.848 solid: 0.782 heated: 0.700 fluffy: 0.600	fresh: -0.062 Qwen 2.5 7B welcoming: 0.684 cheerful: 0.651 active: 0.577 natural: 0.482	comfortable: 1.055 strong: 0.994 natural: 0.739 fluffy: 0.543
Pixtral 12B strong: 1.351 good: 0.824 quality: 0.469 fluffy: 0.364 manner: 0.294 natural: 0.261 comfortable: 0.205	warm: 0.013 Pixtral Large knowledgeable: 1.169 rugged: 0.963 hot: 0.848 solid: 0.782 heated: 0.700 fluffy: 0.600 enjoying: 0.600	fresh: -0.062 Qwen 2.5 7B welcoming: 0.684 cheerful: 0.651 active: 0.577 natural: 0.482 actively: 0.446 friendly: 0.325	comfortable: 1.055 strong: 0.994 natural: 0.739 fluffy: 0.543 welcoming: 0.520 friendly: 0.458 suitable: 0.377
Pixtral 12B strong: 1.351 good: 0.824 quality: 0.469 fluffy: 0.364 manner: 0.294 natural: 0.261	warm: 0.013 Pixtral Large knowledgeable: 1.169 rugged: 0.963 hot: 0.848 solid: 0.782 heated: 0.700 fluffy: 0.600	fresh: -0.062 Qwen 2.5 7B welcoming: 0.684 cheerful: 0.651 active: 0.577 natural: 0.482 actively: 0.446 friendly: 0.325 smooth: 0.184 fresh: 0.168	comfortable: 1.055 strong: 0.994 natural: 0.739 fluffy: 0.543 welcoming: 0.520 friendly: 0.458
knowledgeable: 0.110 Pixtral 12B strong: 1.351 good: 0.824 quality: 0.469 fluffy: 0.364 manner: 0.294 natural: 0.261 comfortable: 0.205 bright: 0.179	warm: 0.013 Pixtral Large knowledgeable: 1.169 rugged: 0.963 hot: 0.848 solid: 0.782 heated: 0.700 fluffy: 0.600 enjoying: 0.600 safely: 0.548	fresh: -0.062 Qwen 2.5 7B welcoming: 0.684 cheerful: 0.651 active: 0.577 natural: 0.482 actively: 0.446 friendly: 0.325 smooth: 0.184	comfortable: 1.055 strong: 0.994 natural: 0.739 fluffy: 0.543 welcoming: 0.520 friendly: 0.458 suitable: 0.377 actively: 0.299
knowledgeable: 0.110 Pixtral 12B strong: 1.351 good: 0.824 quality: 0.469 fluffy: 0.364 manner: 0.294 natural: 0.261 comfortable: 0.205 bright: 0.179 stylish: 0.132	warm: 0.013 Pixtral Large knowledgeable: 1.169 rugged: 0.963 hot: 0.848 solid: 0.782 heated: 0.700 fluffy: 0.600 enjoying: 0.600 safely: 0.548 suitable: 0.449 secure: 0.326	fresh: -0.062 Qwen 2.5 7B welcoming: 0.684 cheerful: 0.651 active: 0.577 natural: 0.482 actively: 0.446 friendly: 0.325 smooth: 0.184 fresh: 0.168 bright: 0.001	comfortable: 1.055 strong: 0.994 natural: 0.739 fluffy: 0.543 welcoming: 0.520 friendly: 0.458 suitable: 0.377 actively: 0.299 good: 0.298 manner: 0.172
knowledgeable: 0.110 Pixtral 12B strong: 1.351 good: 0.824 quality: 0.469 fluffy: 0.364 manner: 0.294 natural: 0.261 comfortable: 0.205 bright: 0.179 stylish: 0.132 secured: 0.129	warm: 0.013 Pixtral Large knowledgeable: 1.169 rugged: 0.963 hot: 0.848 solid: 0.782 heated: 0.700 fluffy: 0.600 enjoying: 0.600 safely: 0.548 suitable: 0.449 secure: 0.326 quality: 0.308	fresh: -0.062 Qwen 2.5 7B welcoming: 0.684 cheerful: 0.651 active: 0.577 natural: 0.482 actively: 0.446 friendly: 0.325 smooth: 0.184 fresh: 0.168 bright: 0.001 manner: -0.004 secured: -0.042	comfortable: 1.055 strong: 0.994 natural: 0.739 fluffy: 0.543 welcoming: 0.520 friendly: 0.458 suitable: 0.377 actively: 0.299 good: 0.298
knowledgeable: 0.110 Pixtral 12B strong: 1.351 good: 0.824 quality: 0.469 fluffy: 0.364 manner: 0.294 natural: 0.261 comfortable: 0.205 bright: 0.179 stylish: 0.132 secured: 0.129 lightly: 0.114 fresh: 0.098	warm: 0.013 Pixtral Large knowledgeable: 1.169 rugged: 0.963 hot: 0.848 solid: 0.782 heated: 0.700 fluffy: 0.600 enjoying: 0.600 safely: 0.548 suitable: 0.449 secure: 0.326 quality: 0.308 welcoming: 0.298	fresh: -0.062 Qwen 2.5 7B welcoming: 0.684 cheerful: 0.651 active: 0.577 natural: 0.482 actively: 0.446 friendly: 0.325 smooth: 0.184 fresh: 0.168 bright: 0.001 manner: -0.004	comfortable: 1.055 strong: 0.994 natural: 0.739 fluffy: 0.543 welcoming: 0.520 friendly: 0.458 suitable: 0.377 actively: 0.299 good: 0.298 manner: 0.172 enjoying: 0.164 fresh: 0.143
Pixtral 12B strong: 1.351 good: 0.824 quality: 0.469 fluffy: 0.364 manner: 0.294 natural: 0.261 comfortable: 0.205 bright: 0.179 stylish: 0.132 secured: 0.129 lightly: 0.114 fresh: 0.098 welcoming: 0.093	warm: 0.013 Pixtral Large knowledgeable: 1.169 rugged: 0.963 hot: 0.848 solid: 0.782 heated: 0.700 fluffy: 0.600 enjoying: 0.600 safely: 0.548 suitable: 0.449 secure: 0.326 quality: 0.308	fresh: -0.062 Qwen 2.5 7B welcoming: 0.684 cheerful: 0.651 active: 0.577 natural: 0.482 actively: 0.446 friendly: 0.325 smooth: 0.184 fresh: 0.168 bright: 0.001 manner: -0.004 secured: -0.042 quality: -0.056 suitable: -0.086	comfortable: 1.055 strong: 0.994 natural: 0.739 fluffy: 0.543 welcoming: 0.520 friendly: 0.458 suitable: 0.377 actively: 0.299 good: 0.298 manner: 0.172 enjoying: 0.164 fresh: 0.143 gentle: 0.119
Pixtral 12B strong: 1.351 good: 0.824 quality: 0.469 fluffy: 0.364 manner: 0.294 natural: 0.261 comfortable: 0.205 bright: 0.179 stylish: 0.132 secured: 0.129 lightly: 0.114 fresh: 0.098 welcoming: 0.093 friendly: 0.089	warm: 0.013 Pixtral Large knowledgeable: 1.169 rugged: 0.963 hot: 0.848 solid: 0.782 heated: 0.700 fluffy: 0.600 enjoying: 0.600 safely: 0.548 suitable: 0.449 secure: 0.326 quality: 0.308 welcoming: 0.298 lightly: 0.248	fresh: -0.062 Qwen 2.5 7B welcoming: 0.684 cheerful: 0.651 active: 0.577 natural: 0.482 actively: 0.446 friendly: 0.325 smooth: 0.184 fresh: 0.168 bright: 0.001 manner: -0.004 secured: -0.042 quality: -0.056	comfortable: 1.055 strong: 0.994 natural: 0.739 fluffy: 0.543 welcoming: 0.520 friendly: 0.458 suitable: 0.377 actively: 0.299 good: 0.298 manner: 0.172 enjoying: 0.164 fresh: 0.143
Pixtral 12B strong: 1.351 good: 0.824 quality: 0.469 fluffy: 0.364 manner: 0.294 natural: 0.261 comfortable: 0.205 bright: 0.179 stylish: 0.132 secured: 0.129 lightly: 0.114 fresh: 0.098 welcoming: 0.093	warm: 0.013 Pixtral Large knowledgeable: 1.169 rugged: 0.963 hot: 0.848 solid: 0.782 heated: 0.700 fluffy: 0.600 enjoying: 0.600 safely: 0.548 suitable: 0.449 secure: 0.326 quality: 0.308 welcoming: 0.298 lightly: 0.248 manner: 0.229 prayerful: 0.226	fresh: -0.062 Qwen 2.5 7B welcoming: 0.684 cheerful: 0.651 active: 0.577 natural: 0.482 actively: 0.446 friendly: 0.325 smooth: 0.184 fresh: 0.168 bright: 0.001 manner: -0.004 secured: -0.042 quality: -0.056 suitable: -0.086 plain: -0.090	comfortable: 1.055 strong: 0.994 natural: 0.739 fluffy: 0.543 welcoming: 0.520 friendly: 0.458 suitable: 0.377 actively: 0.299 good: 0.298 manner: 0.172 enjoying: 0.164 fresh: 0.143 gentle: 0.119 plain: -0.055
Pixtral 12B strong: 1.351 good: 0.824 quality: 0.469 fluffy: 0.364 manner: 0.294 natural: 0.261 comfortable: 0.205 bright: 0.179 stylish: 0.132 secured: 0.129 lightly: 0.114 fresh: 0.098 welcoming: 0.093 friendly: 0.089 actively: 0.024 confident: 0.003	warm: 0.013 Pixtral Large knowledgeable: 1.169 rugged: 0.963 hot: 0.848 solid: 0.782 heated: 0.700 fluffy: 0.600 enjoying: 0.600 safely: 0.548 suitable: 0.449 secure: 0.326 quality: 0.308 welcoming: 0.298 lightly: 0.248 manner: 0.229 prayerful: 0.226 beauty: 0.185	fresh: -0.062 Qwen 2.5 7B welcoming: 0.684 cheerful: 0.651 active: 0.577 natural: 0.482 actively: 0.446 friendly: 0.325 smooth: 0.184 fresh: 0.168 bright: 0.001 manner: -0.004 secured: -0.042 quality: -0.056 suitable: -0.086 plain: -0.090 neutral: -0.143 solid: -0.231	comfortable: 1.055 strong: 0.994 natural: 0.739 fluffy: 0.543 welcoming: 0.520 friendly: 0.458 suitable: 0.377 actively: 0.299 good: 0.298 manner: 0.172 enjoying: 0.164 fresh: 0.143 gentle: 0.119 plain: -0.055 cheerful: -0.187 warm: -0.187
Pixtral 12B strong: 1.351 good: 0.824 quality: 0.469 fluffy: 0.364 manner: 0.294 natural: 0.261 comfortable: 0.205 bright: 0.179 stylish: 0.132 secured: 0.129 lightly: 0.114 fresh: 0.098 welcoming: 0.093 friendly: 0.089 actively: 0.024	warm: 0.013 Pixtral Large knowledgeable: 1.169 rugged: 0.963 hot: 0.848 solid: 0.782 heated: 0.700 fluffy: 0.600 enjoying: 0.600 safely: 0.548 suitable: 0.449 secure: 0.326 quality: 0.308 welcoming: 0.298 lightly: 0.248 manner: 0.229 prayerful: 0.226 beauty: 0.185 actively: 0.179	fresh: -0.062 Qwen 2.5 7B welcoming: 0.684 cheerful: 0.651 active: 0.577 natural: 0.482 actively: 0.446 friendly: 0.325 smooth: 0.184 fresh: 0.168 bright: 0.001 manner: -0.004 secured: -0.042 quality: -0.056 suitable: -0.086 plain: -0.090 neutral: -0.143	comfortable: 1.055 strong: 0.994 natural: 0.739 fluffy: 0.543 welcoming: 0.520 friendly: 0.458 suitable: 0.377 actively: 0.299 good: 0.298 manner: 0.172 enjoying: 0.164 fresh: 0.143 gentle: 0.119 plain: -0.055 cheerful: -0.187
Pixtral 12B strong: 1.351 good: 0.824 quality: 0.469 fluffy: 0.364 manner: 0.294 natural: 0.261 comfortable: 0.205 bright: 0.179 stylish: 0.132 secured: 0.129 lightly: 0.114 fresh: 0.098 welcoming: 0.093 friendly: 0.089 actively: 0.024 confident: 0.003 plain: -0.048	warm: 0.013 Pixtral Large knowledgeable: 1.169 rugged: 0.963 hot: 0.848 solid: 0.782 heated: 0.700 fluffy: 0.600 enjoying: 0.600 safely: 0.548 suitable: 0.449 secure: 0.326 quality: 0.308 welcoming: 0.298 lightly: 0.248 manner: 0.229 prayerful: 0.226 beauty: 0.185	fresh: -0.062 Qwen 2.5 7B welcoming: 0.684 cheerful: 0.651 active: 0.577 natural: 0.482 actively: 0.446 friendly: 0.325 smooth: 0.184 fresh: 0.168 bright: 0.001 manner: -0.004 secured: -0.042 quality: -0.056 suitable: -0.086 plain: -0.090 neutral: -0.143 solid: -0.231 stylish: -0.446	comfortable: 1.055 strong: 0.994 natural: 0.739 fluffy: 0.543 welcoming: 0.520 friendly: 0.458 suitable: 0.377 actively: 0.299 good: 0.298 manner: 0.172 enjoying: 0.164 fresh: 0.143 gentle: 0.119 plain: -0.055 cheerful: -0.187 warm: -0.187 stylish: -0.190

Table 29: Top 20 warmth-related words associated with 'white (race)'