

# Urban Dictionary Brand Safety Specification



## Executive Summary

**Urban Dictionary** is the world's largest crowdsourced slang dictionary, serving over 75 million monthly visitors and defining contemporary language and culture.

**What we do:** We screen every page for brand safety using AI, assigning each page a safety grade (A–D) aligned with Google advertiser policy. This protects advertisers from appearing next to harmful content while preserving authentic cultural expression.

**What makes us different:** Unlike legacy keyword filters that often flag harmless identity mentions as unsafe, our model was specifically chosen to reduce false positives on minority identity references — protecting both advertisers and marginalized voices.

**Key features:** Transparent methodology, 15+ harm categories, customizable safety tiers, and audit tools for brand safety teams.

## Overview

Designed for compliance with brand safety standards — and built to protect marginalized voices.

Urban Dictionary applies a multi-layered moderation and classification system to ensure that ads appear only alongside suitable content. This document details the brand safety model used in our ad platform.

## Model & Methodology

We use **unbiased-toxic-roberta**, a variant of RoBERTa fine-tuned to detect toxic, offensive, and harmful language with reduced bias against minority communities. The model is deployed via Detoxify, a widely-used ML library for content moderation.

**How scoring works:** The model classifies each published definition across 15+ harm categories and produces probability scores per category — a score between 0 and 1 indicating the likelihood of harmful content. For example:

- 0.0–0.2: Very low risk (unlikely to contain harmful content)
- 0.2–0.5: Low to moderate risk
- 0.5–0.8: High risk
- 0.8–1.0: Very high risk (likely contains harmful content)

For each page, we compute a composite safety grade based on the highest scoring definition on that page. Definitions with high scores in any harm category may lower a page's grade. Thresholds were selected based on internal testing against Google Ads safety guidelines.

## Research Background

**Key Point:** This model emerged from a \$65,000 Google-funded research competition explicitly designed to reduce bias in toxicity detection. Urban Dictionary selected one of the top submissions for production use.

Our safety scoring is based on unbiased-toxic-roberta, a machine learning model trained on public data released through a Kaggle competition funded by Jigsaw, an Alphabet subsidiary that leads Google's Conversation AI research.

The training dataset was built from 500,000 real-world public comments labeled for toxicity and identity references by crowdsourced raters. The project's aim was to detect harmful content while reducing unintended bias — especially false positives triggered by benign mentions of identity (e.g. "I am a gay woman").

### Key references:

- Kaggle: [Jigsaw Unintended Bias in Toxicity Classification](#)
- Paper: [Nuanced Metrics for Measuring Unintended Bias in Text Classification](#)
- Model card: [unitary/unbiased-toxic-roberta](#)

Jigsaw awarded \$65,000 in prizes to spur innovation and open-source bias mitigation. Urban Dictionary selected one of the top-scoring models — fine-tuned for identity fairness — and calibrated its thresholds to align with Google Ads brand safety policy.

## Screened Harm Categories

- **Toxicity:** General toxicity, severe toxicity, obscenity, insults
- **Identity & Hate:** Identity attack, race, gender, religion, sexual orientation
- **Harm & Violence:** Threats, sexual explicitness, self-harm, violence, illicit activity, legal risk content

# ABCD Safety Grades

Each page receives a grade based on the worst scoring content on that page. Thresholds were calibrated against Google advertiser policies.

Grade	Description	Ad Eligibility
A	Minimal risk across all categories	Eligible for all advertisers
B	Minor concerns in some categories	Eligible for most advertisers
C	Elevated risk or multiple mid-level violations	Eligible for open-tier advertisers only
D	High risk or violates advertiser policies	No ads served

*Note: Unreviewed or unanalyzed pages default to Grade D to ensure advertiser protection.*

## Moderation Workflow

1. **Content Review:** All definitions undergo editorial review for platform compliance.
2. **ML-Based Scoring:** Published content is re-evaluated using the ML model across harm categories.
3. **Safety Grade Assignment:** Worst definition score determines the page grade (A–D).
4. **Default Protections:** Pages lacking safety analysis are excluded from monetization.

## Advertiser Targeting Tiers

Tier	Grade Inclusion	Use Case
Strict	A only	Family-friendly brands with low risk tolerance
Balanced	A and B	Standard brand-safe advertisers
Open	A, B, and C	Maximized reach, moderate tolerance

Custom tiering is available: advertisers may define their own thresholds per harm category.

## Built for transparency

✓ Open methodology

Our safety system is fully documented — including the model used, scoring thresholds, and harm categories. We're happy to share the underlying code on request.

✓ **Fairness-first design**

We use a model fine-tuned for bias reduction and identity fairness, minimizing false positives for minority voices.

✓ **Customizable defaults**

Our default safety tiers align with Google Ads policies. We support custom thresholds, manual overrides, and CSV exports on request.

## Contact

To request more information or a custom brand safety integration, contact [ads@urbandictionary.com](mailto:ads@urbandictionary.com).

For live scoring examples, customizable filtering, and audit tools, visit [urbandictionary.biz/brand-safety](https://urbandictionary.biz/brand-safety)