# **Executive Summary**

### ) ISSUE / PROBLEM

The TikTok data team aims to build a machine learning model to classify videos as either claims or opinions. To begin, the team needs to clean and organize the dataset before starting exploratory data analysis.

# RESPONSE

The team conducted an initial analysis of the dataset, focusing on understanding how user-generated content is labeled as either a claim or opinion. The analysis included a review of engagement metrics to support future modeling efforts.

# > IMPACT

The analysis revealed that claim videos have much higher engagement levels than opinions. Videos from banned or under-review users also showed very high share counts

### UNDERSTANDING THE DATA

After reviewing the dataset, the variable claim\_status was central to the project. The dataset is well balanced:

data['claim\_status'].value\_counts()

claim 9608 opinion 9476

Name: claim\_status, dtype: int64

**Note:** The counts of each claim status are quite balanced. There are 9,608 claims and 9,476 opinions.

### **ENGAGEMENT TRENDS**

To better understand viewer interaction, the team created new metrics: likes per view, comments per view, and shares per view. These engagement ratios helped identify how users respond to different types of content. The analysis showed that **claim videos consistently received higher engagement** than opinion videos across all metrics. This suggests that claim content may be more attention-grabbing or controversial, encouraging more reactions.

#### Claims:

Mean view count claims: 501029.4527477102 Median view count claims: 501555.0

#### **Opinions:**

Mean view count opinions: 4956.43224989447 Median view count opinions: 4953.0

### KEY INSIGHTS

- The dataset is balanced (~50% claims, ~50% opinions), which is ideal for classification.
- Claim videos are more viral and generate more interaction than opinions.
- Videos with high engagement are more likely to come from users who were banned or under review.
- The dataset is ready for deeper exploratory analysis and feature selection for modeling.

Pie chart visualizes the comparison of the count of claims and op in ions



