# AI IGNITE WEEK

# **Technical Track**

## TASK 1: SIMPLE SENTIMENT ANALYZER

## **Problem Statement:**

Build a tool that reads customer reviews or social media comments and tells you if people are happy, angry, or neutral about a product or service.

## What You'll Build:

A sentiment analyzer that:

- Takes text input (reviews, tweets, comments)
- Uses a pre-trained AI model (no training needed!)
- Shows positive, negative, or neutral sentiment
- Creates simple charts to visualize results

## Simple Approach:

pip install pandas matplotlib textblob # Using TextBlob instead of transformers.

# Steps:

- 1. Collect or create data: Get 30-50 sample reviews/comments
  - Option A: Use fake data (restaurant reviews, product feedback)
  - Option B: Copy real reviews from Google/Amazon (for practice only)
- 2. Analyze sentiment: Use Text Blob (super simple, 2 lines of code)

#### Python:

from textblob import TextBlob

sentiment = TextBlob("This product is amazing!").sentiment.polarity

# Returns: 0.5 (positive) or -0.3 (negative) or 0.0 (neutral)

### 3. Categorize and count:

Positive: score > 0.1

○ Negative: score < -0.1

o Neutral: everything else

**4. Visualize:** Create a simple pie chart

### Sample Data:

Sentiment Summary:

• Positive: 45 reviews (60%)

• Neutral: 18 reviews (24%)

• Negative: 12 reviews (16%)

Top Positive Words: amazing, love, great, excellent

Top Negative Words: terrible, slow, disappointed, bad.

# Additional Resource:

https://youtu.be/DedS74YKhs4?si=60 pp2L257EZ8EO6