



# McDonald's Feedback Analysis: Social Media Command Centre

IS 492 Introduction to GEN AI - Spring 2026

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GitHub - <https://github.com/IS492-SP26/team-project-social-media-command-centre>



# Problem & Motivation

## Main Problem

Feedback is scattered across Google Maps and social media, creating an aggregation problem where high national ratings hide failing individual stores

## Primary Victims

Restaurant managers who cannot read 33,000 reviews manually to find actionable issues

## Urgency

McDonald's serves 69 million people daily. Small service failures go public instantly, and retaining just 5 percent more customers can increase profits by up to 95 percent

# Target Users & Core Tasks



## Primary Users

Regional Operations Managers and C-Level Executives

## Core Tasks

**Identify High Risk Locations:** Locate stores with systemic failures.  
**Root Cause Diagnosis:** Use text analysis to separate food quality complaints from service speed issues.

## Success Outcome

Transforming messy text into specific action items for store interventions

# Existing Tools & Gaps

## Existing Tools

1. Traditional surveys
2. Mystery Shoppers

They provide structured, easy to read satisfaction scores



## Gaps

1. **Speed:** These methods are slow and miss real time spikes in negative sentiment.
2. **Data Quality:** Academic models often fail on real world data that includes slang, emojis, and relative timestamps like 3 months ago.
3. **Scope:** Most tools aggregate data nationally and ignore store level geographic insights

# Key Insights from Literature

01

## Transformer Models

Literature shows RoBERTa is superior for social media because it was trained on 124 million informal posts

02

## Aspect Based Sentiment

Research highlights that customers often have mixed feelings, such as liking the food but hating the service

03

## Visualization Principles

We are applying the data ink ratio to ensure our dashboards prioritize actionable information over decorative elements

04

## Design Implication

We will implement confidence thresholds to flag ambiguous neutral reviews for manual human audit

# Initial Concept & Value Proposition

## Proposal

A scalable pipeline that cleans 33,000 reviews and visualizes them in a three-page Power BI dashboard

## Value of GEN AI

Large Language Models allow us to understand context, sarcasm, and intent that simple word counting tools miss

## Uniqueness

We have built a custom parser to convert relative dates into absolute timestamps to enable time series analysis

# Milestones, Roles & Next Steps

## Roles

Ashish Gole : Data Engineering

Jeet Thakore : NLP Model Refinement

Pranav Charakondala: Dashboard  
Architecture

## Checkpoint 2 Goals

We will be experimenting with various transformer models like SBERT Roberta etc and then going forward with the best performing one as per our datasets in the subsequent checkpoints

## Biggest Risk

Selection bias, as extreme experiences are overrepresented in online reviews.

THANK YOU!  
Q&A!

