# FIN 473 – Principles of Real Estate

# Group AI Assignment 4

# Real Estate Market Sentiment

This AI assignment must be done as a group, and all group members (unless there are unusual circumstances) will receive the same grade. The assignment must be uploaded to the D2L folder by the due date listed on the course schedule. Use the following title: "FIN 473 AI Ass. 4, Group X". Upload ONLY ONE assignment per group. All prompts (including the names of the AI models used) and (unedited) completions should be included in an appendix.

## AI Assignment 4: Real Estate Market Sentiment

### Assignment Overview

In this assignment, you will use generative AI tools to analyze market sentiment in the real estate sector based on recent news articles. The goal is to gain insights into current market attitudes and outlooks by leveraging AI to process and interpret a large volume of news content.

### Instructions

1. Article Collection

- Identify and select 20 substantive news articles focused on the real estate market from the past 30 days in one geographic area.
- Articles should be from reputable business or real estate news sources and each be at least 500 words long.

- Compile the articles into a single document, including the publication date, source, title, and full text for each.

2. Sentiment Analysis

- Use z generative AI tool to analyze the sentiment of each article.
- The tool should classify each article as positive, neutral, or negative in sentiment and provide a confidence score.
- Create a spreadsheet listing each article, its source, date, sentiment classification, and confidence score.

3. Aggregate Sentiment

- Calculate the overall proportions of positive, neutral, and negative articles in your sample.
- Determine the average confidence score across all articles.

4. Reflection

- Write a report summarizing the aggregate sentiment results and reflecting on what the sentiment analysis reveals about current attitudes in the real estate market.
- Consider questions like: Is sentiment mostly positive or negative? How does this compare to your prior impressions of market conditions? What are the key topics or themes driving sentiment?
- Also comment on the strengths and limitations of using AI for a task like this.  How else could AI be used to gain insights in finance?