

Project Requirements

1. Use the NLTK library's VADER analyzer to add a “sentiment_score” column to the TripAdvisor Hotel Reviews dataset (provided in the course resources).
 - VADER returns four sentiment scores: “pos”, “neu”, “neg”, and “compound”. Use the **compound** score, which ranges from -1 (most negative) to +1 (most positive).
 - VADER is bundled and ready to use in Python in Excel. If an AI assistant inserts `nltk.download('vader_lexicon')` into your code, remove it.
2. Produce a **violin plot** showing how the compound sentiment scores are distributed across the five star ratings in the dataset. The plot should contain five distinct violins - one per star rating.

All work should be done in Excel, mostly if not entirely via *Python* in Excel.

- Leverage an AI assistant to help you write the necessary code (unless of course you already know your way around sentiment analysis!).
- Feel free to structure your workbook however you like, but you are encouraged to consider separation of concerns when doing so.