# Employee Sentiment Analysis – Final LLM Assessment

This project was conducted as part of the final LLM assessment. It involves analyzing internal employee messages to determine sentiment, identify patterns of behavior, and build a predictive model to forecast future trends.

## Project Steps:

- Sentiment labeling using TextBlob

- Exploratory Data Analysis (EDA)

- Monthly sentiment scoring by employee

- Ranking employees by sentiment

- Detecting flight risk based on negative message frequency

- Predictive modeling using Linear Regression

## Tools Used:

Python, pandas, seaborn, matplotlib, TextBlob, scikit-learn

## Outcome:

All objectives were successfully met. The final model is able to forecast sentiment trends based on monthly data. Key insights were visualized and presented through bar plots and summary tables.