**Data Engineering | Project 3 | Group 1 | 3.25.2024**

***GROUP PARTICIPANTS***

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* Luis Martinez
* Matt Flanagan

***BACKGROUND & OBJECTIVES***

The primary objective is to collect and prepare data for future analysis by clients examining Airbnb trends in the Greater Los Angeles area. We will acquire raw data and transform it in such a way that specific topics of interest can be easily identified and analyzed by their companies researchers.

***APPROACH***

* Data Sources:
  + LA Airbnb Listings Dataset:
    - https://www.kaggle.com/datasets/oindrilasen/la-airbnb-listings
* Utilizing ETL Workflows
  + Data manipulation will be accomplished using PostgreSQL, SQLalchemy, Pandas, Flask API with JSON output, and Natural Language Toolkit.
* Demographics:
  + Exclusively in the Los Angeles, California
* 10,000 total elements
* Data will be unweighted and assume a natural fall-out of census demographics for the given area.

***DELIVERABLES***

* 10-minute presentation
* PowerPoint report