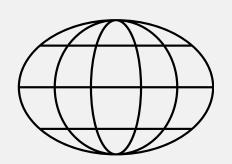


INSPIRATION & PURPOSE

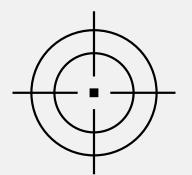




TRY TO FIND TRENDS IN TRAVEL JOURNEYS



FREQUENCY OF TRAVEL



CREATE A USEFUL MODEL FOR AIRLINES

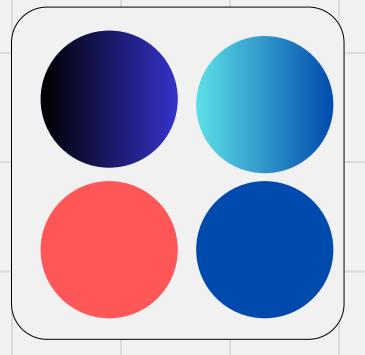


Predict and explore the trends that make airplane flights seem enjoyable to passengers.

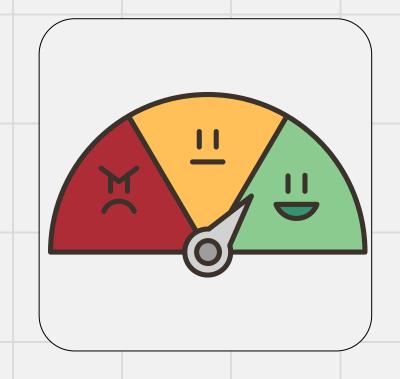












DESIGN CONCEPTS

- Blue, Red, and Black color palette
- Organized and clean design inspired by an airline website
- User friendly web experience and prediction tool



RESEARCH QUESTIONS

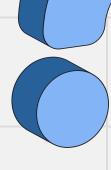


CORRELATION BETWEEN LENGTH OF FLIGHT AND SATISFACTION RATING



MOST POPULAR AIRLINES IN THE US AND THEIR SATISFACTION RATING CLASSIFIED BY FEATURES

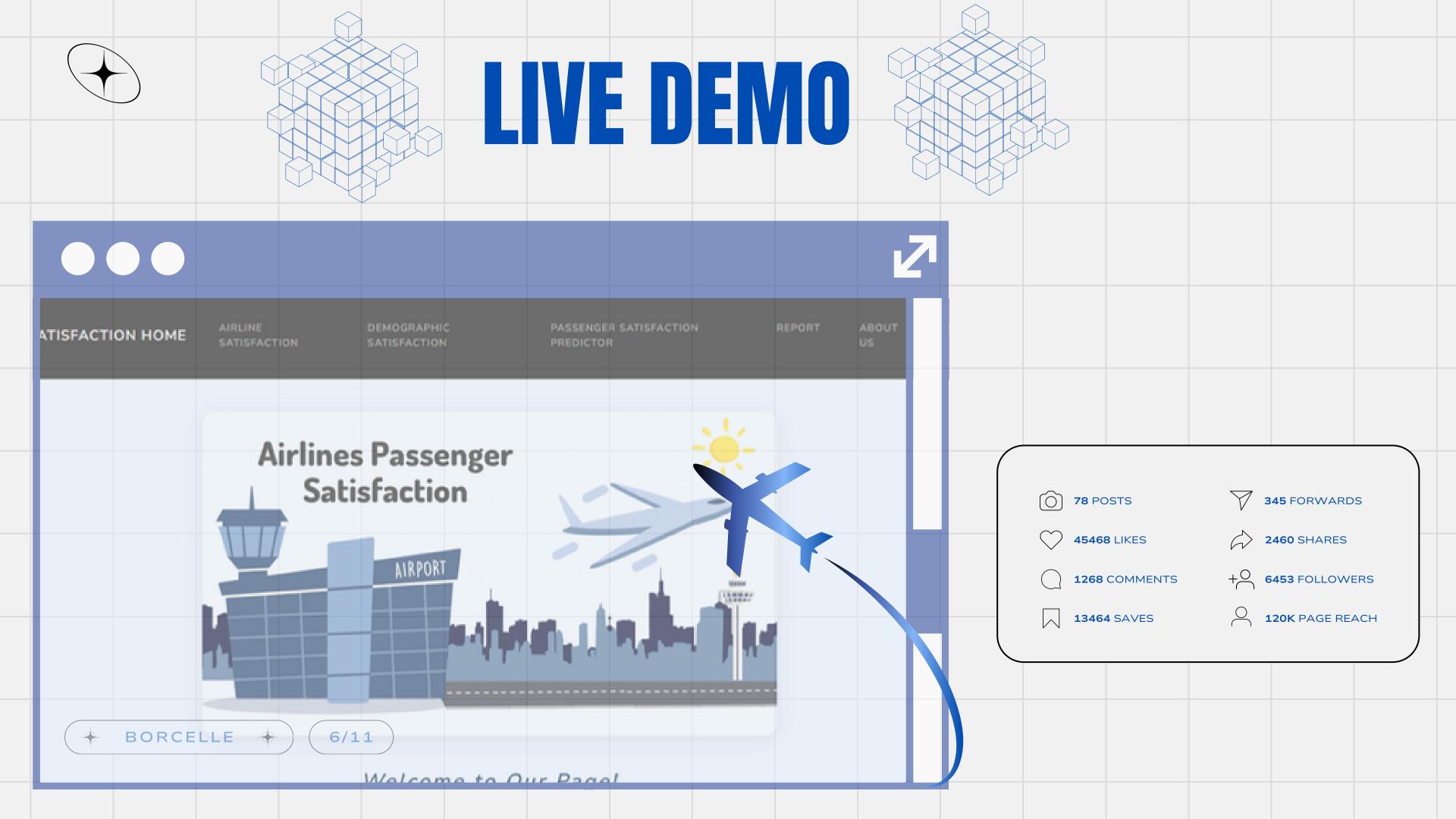
SATISFACTION RATINGS OVER THE YEARS



OVERALL AIRLINE SATISFACTION RATING

CORRELATION BETWEEN AGE AND CUSTOMER SATISFACTION

ARE THERE ANY TRENDS IN CUSTOMER
RESPONSES TO SPECIFIC AIRLINES, AND WAS
THE AIRLINE ITSELF OR A CERTAIN FEATURE
MORE IMPORTANT IN DETERMINING
SATISFACTION?



CONCLUSIONS





WE IDENTIFIED A TREND INDICATING A DECLINE IN OVERALL SATISFACTION, LIKELY INFLUENCED BY INCREASING TRAVELER EXPECTATIONS.

THE USE OF FILTERS AND ENGAGING VISUAL ELEMENTS ENHANCE THE USER EXPERIENCE OF OUR WEBSITE.

THE PREDICTOR PLACES A HEAVY EMPHASIS
ON TYPE OF TRAVEL AND QUALITY OF INFLIGHT WIFI TO DETERMINE FLIGHT
SATISFACTION.

- IMBALANCED FEATURE IMPORTANCES
 - O NO DATES = CAN'T
 DETERMINE SKEW IN
 DATA
- BUSINESS TRAVEL = 2X PERSONAL TRAVEL
 - EMPLOYER \$\$\$
 - ADULTS ONLY
- LOYAL = 5X DISLOYAL INCENTIVES?



LIMITATIONS & BIAS

- DEPLOYMENT SITE:
 USING 3RD BEST MODEL
- NO LOCATIONS = NO ALGORITHMIC BIAS
- RELIABILITY:
 - MIN AGE 7
 - YOUNGER PEOPLEMORE LIKELY TOANSWER WITHNEGATIVEEXPERIENCES
 - NO DATA SOURCE

FUTURE WORK



MORE DATA

More survey results, including dates, airport locations, and specific airlines.

RESOURCES

Better information on how the data was obtained to avoid unreliable information in the data.

IMPROVE MODEL

Use the LightGBM model that was the best model in a more robust web service







