yes lets modify the my work section, i want to get rid of the work experience tab because that's a different compartment. apart from that i will share all the details required to add in the other tabs.
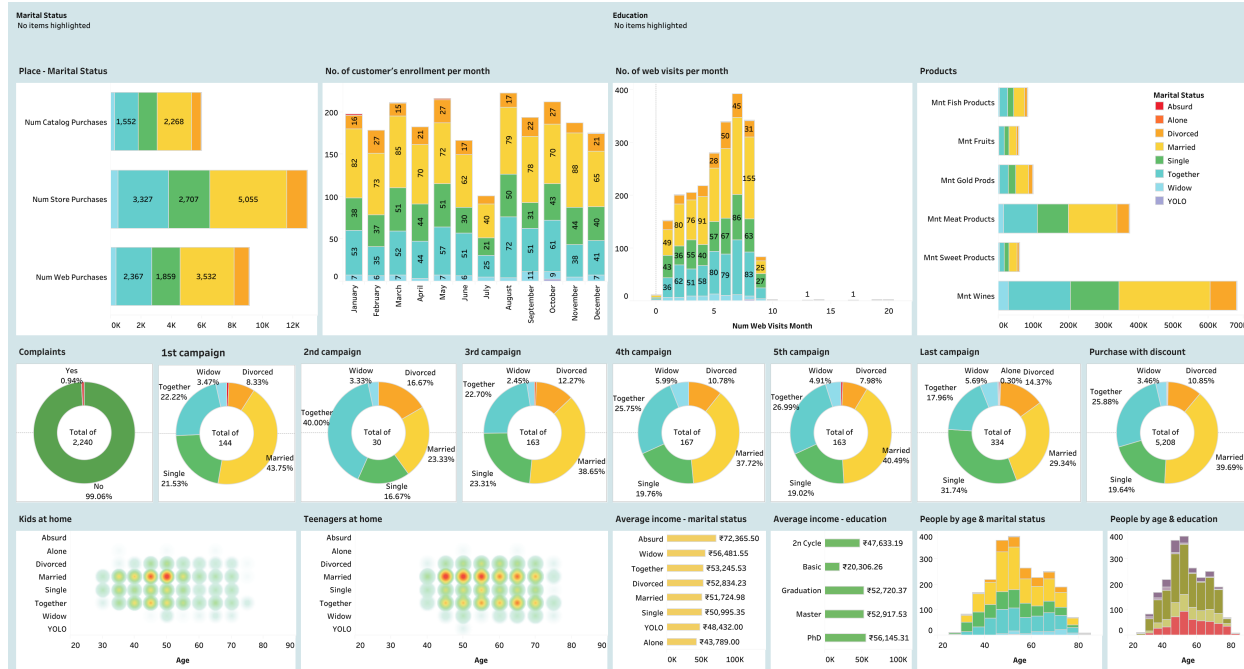
academic projects :

1. datacamp
    a. nyc public schools : This report analyzes the SAT performance of NYC schools with a focus on three key objectives:
        i. Identifying schools with the best math results.
        ii. Listing the top 10 performing schools based on combined SAT scores.
        iii. Determining which borough exhibits the largest standard deviation in combined SAT scores.
    b. Investigating Netflix Movies : Netflix, founded in 1997 as a DVD rental service, has evolved into a global entertainment giant with a vast library of movies and TV shows. This report focuses on analyzing Netflix movies released in the 1990s to uncover insights about this iconic decade in cinema. The analysis aims to assist a production company specializing in nostalgic styles.
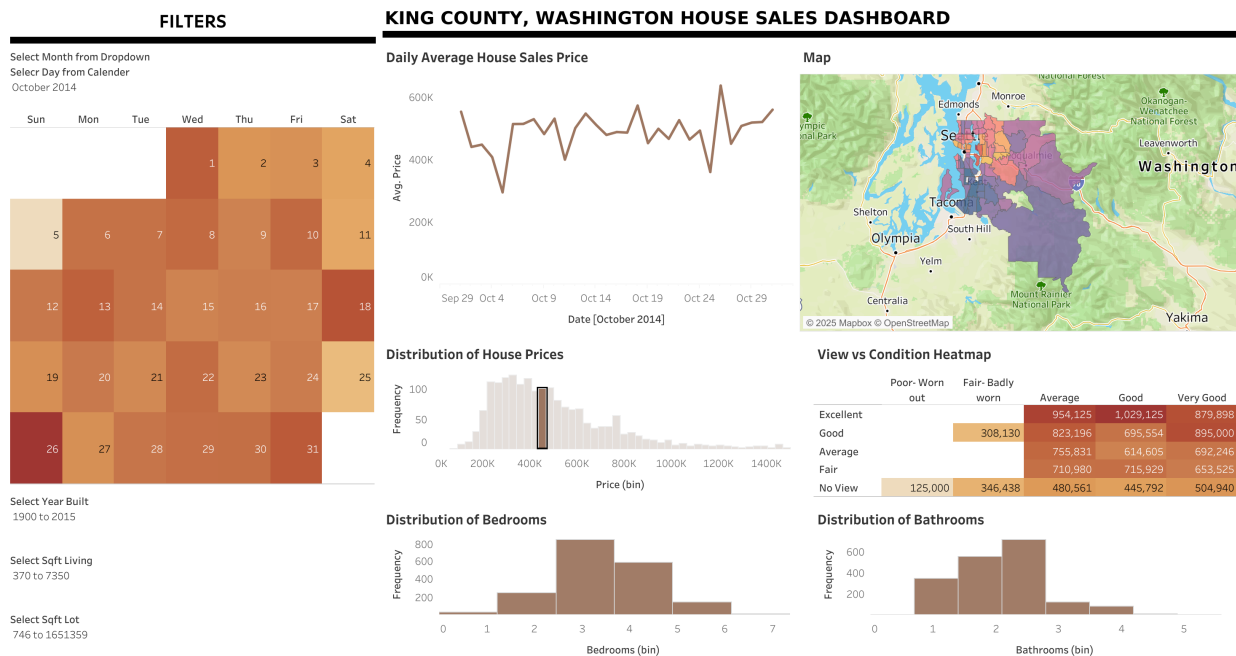2. Purdue:
    a. Bankruptcy Prediction Modelling :
        i. Conducted robust exploratory data analysis (EDA) using SAS Enterprise Miner to address skewed attributes, significant outliers, and collinearity, leveraging techniques like LASSO regularization.
        ii. Built an ensemble modeling approach combining Gradient Boosting, Neural Networks, and LASSO regression within SAS EM, achieving a final accuracy of 94.15% on private leaderboard test data.
        iii. Optimized data partitioning and model parameters, including a 70:30 train-test split, tailored activation functions, and multi-model stacking to improve predictive accuracy and mitigate overfitting.
        iv. Delivered actionable insights into bankruptcy risk prediction, emphasizing model scalability and adaptability for real-world financial datasets.
        v. Skills: data exploration ¬∑ Data Analysis ¬∑ SAS Enterprise Miner ¬∑ SAS (Software) ¬∑ Data Engineering ¬∑ Analytical Skills ¬∑ Exploratory Data Analysis
    b. Student Performance Analysis System :

  i. Problem: Traditional education methods may not optimize student potential.

  ii. Solution: Project uses data visualization and machine learning to analyze and improve student performance.

  iii. Benefits: Educators gain actionable insights to personalize learning and improve academic outcomes.

  iv. Impact: Creates a more effective and personalized education choices, empowering student success.

c. Union Pacific – On the Tracks to Tech Transformation

  i. Objective: Developed a strategic roadmap to digitally transform Union Pacific's operations, focusing on enhancing operational efficiency, customer experience, and revenue growth.

  ii. Proposed Solutions:

   1. IoT Sensors: Enabled predictive maintenance and real-time monitoring to minimize downtime, enhance safety, and optimize resource allocation.

   2. AI/ML Integration: Implemented dynamic pricing models, predictive analytics, and automated decision-making to improve profitability and reduce costs.

   3. Digital Twins: Simulated infrastructure and operations for smarter planning, risk mitigation, and cost efficiency.

  iii. Key Outcomes:

   1. Enhanced Union Pacific's value chain through enriched data flow, better customer experience, and higher reliability.

   2. Improved operational metrics such as reduced maintenance costs, better train scheduling, and streamlined resource usage.

   3. Created a digital virtuous cycle where reinvestment in technology drives continuous growth and innovation.

  iv. Real-World Applications: Highlighted the potential for digital transformation in the freight industry to achieve long-term sustainability, customer satisfaction, and market leadership.

  v. Skills: Collaboration · Project Planning · Cost Reduction Management · Analytical Skills · Critical Thinking · Value Chain Optimization · Presentation Skills · Strategic Communications

d. Airbnb Market Segmentation and Insights

i. Objective: To enhance Airbnb's host network optimization by leveraging advanced data analytics to segment hosts and generate predictive insights into performance, revenue, and Superhost status.

ii. Methodology:
1. Conducted exploratory data analysis and preprocessing on a dataset of over 120,000 rows and 111 variables, addressing challenges like missing values, outliers, skewness, and multicollinearity.
2. Performed K-means clustering, identifying six distinct host segments based on property characteristics, pricing, neighborhood attributes, and historical performance.
3. Developed predictive models for revenue drivers, Superhost probability, and the key factors influencing Superhost status.

iii. Key Results:
1. Identified high-performing hosts needing retention strategies and emerging hosts requiring targeted support for sustained growth.
2. Unveiled underperforming clusters with opportunities for improvement through dynamic pricing and operational training.

iv. Real-World Applications: Provided actionable strategies to improve host performance, optimize the Superhost program, and enhance customer satisfaction, driving sustainable growth in a competitive market.

v. Impact: Delivered insights for market-specific interventions, empowering Airbnb to refine host engagement, increase revenue, and strengthen its reputation as a global marketplace leader.

vi. Skills: Regression Analysis · Market Analysis · Machine Learning · Pandas (Software) · Data Preparation · Python (Programming Language) · Analytical Skills · Scikit-Learn · Segmentation Analysis · k-means clustering · Collaborative Problem Solving

3. Tableau dashboards:
   a. https://public.tableau.com/views/marketingdashboard_17218934198700/Dashboard1?:language=en-US&:sid=&:redirect=auth&:display_count=n&:origin=viz_share_link

Marital Status
No items highlighted

Education
No items highlighted

Place - Marital Status

Num Catalog Purchases: 1,552 | 2,268

Num Store Purchases: 3,327 | 2,707 | 5,055

Num Web Purchases: 2,367 | 1,859 | 3,532

0K 2K 4K 6K 8K 10K 12K

No. of customer's enrollment per month

Month				
January	53	82	38	16
February	35	73	37	27
March	51	85	51	15
April	52	70	44	21
May	44	72	51	27
June	57	62	30	17
July	51	40	25	
August	80	72	50	17
September	51	78	31	79
October	61	70	43	31
November	38	88	44	27
December	41	65	40	21

No. of web visits per month

400 / 300 / 200 / 100

45, 31, 50, 28, 155, 86, 91, 80, 76, 63, 67, 49, 62, 58, 79, 55, 51, 40, 83, 36, 25, 27

Num Web Visits Month: 0 5 10 15 20

Products

Mnt Fish Products
Mnt Fruits
Mnt Gold Prods
Mnt Meat Products
Mnt Sweet Products
Mnt Wines

0K 100K 200K 300K 400K 500K 600K 700K

Marital Status
- Absurd
- Alone
- Divorced
- Married
- Single
- Together
- Widow
- YOLO

Complaints
Yes 0.94%
Total of 2,240
No 99.06%

1st campaign
Widow 3.47% | Divorced 8.33%
Together 22.22%
Total of 144
Married 43.75%
Single 21.53%

2nd campaign
Widow 3.33% | Divorced 16.67%
Together 40.00%
Total of 30
Married 23.33%
Single 16.67%

3rd campaign
Widow 2.45% | Divorced 12.27%
Together 22.70%
Total of 163
Married 38.65%
Single 23.31%

4th campaign
Widow 5.99% | Divorced 10.78%
Together 25.75%
Total of 167
Married 37.72%
Single 19.76%

5th campaign
Widow 4.91% | Divorced 7.98%
Together 26.99%
Total of 163
Married 40.49%
Single 19.02%

Last campaign
Widow 5.69% | Alone 0.30% | Divorced 14.37%
Together 17.96%
Total of 334
Married 29.34%
Single 31.74%

Purchase with discount
Widow 3.46% | Divorced 10.85%
Together 25.88%
Total of 5,208
Married 39.69%
Single 19.64%

Kids at home
Absurd, Alone, Divorced, Married, Single, Together, Widow, YOLO
Age: 20 30 40 50 60 70 80 90

Teenagers at home
Absurd, Alone, Divorced, Married, Single, Together, Widow, YOLO
Age: 20 30 40 50 60 70 80 90

Average income - marital status
Absurd	₹72,365.50
Widow	₹56,481.55
Together	₹53,245.53
Divorced	₹52,834.23
Married	₹51,724.98
Single	₹50,995.35
YOLO	₹48,432.00
Alone	₹43,789.00

0K 50K 100K

Average income - education
2n Cycle	₹47,633.19
Basic	₹20,306.26
Graduation	₹52,720.37
Master	₹52,917.53
PhD	₹56,145.31

0K 50K 100K

People by age & marital status
400 / 300 / 200 / 100 / 0
Age: 20 40 60 80

People by age & education
400 / 300 / 200 / 100 / 0
Age: 20 40 60 80

b. https://public.tableau.com/views/HousePrices_17187827408920/Dashboard1?:language=en-US&:sid=&:redirect=auth&:display_count=n&:origin=viz_share_link

FILTERS

KING COUNTY, WASHINGTON HOUSE SALES DASHBOARD

Select Month from Dropdown
Selecr Day from Calender
October 2014

Sun	Mon	Tue	Wed	Thu	Fri	Sat
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

Select Year Built
1900 to 2015

Select Sqft Living
370 to 7350

Select Sqft Lot
746 to 1651359

Daily Average House Sales Price
600K / 400K / 200K / 0K
Avg. Price
Date [October 2014]: Sep 29, Oct 4, Oct 9, Oct 14, Oct 19, Oct 24, Oct 29

Map
© 2025 Mapbox © OpenStreetMap

Distribution of House Prices
100 / 50 / 0
Frequency
Price (bin): 0K 200K 400K 600K 800K 1000K 1200K 1400K

View vs Condition Heatmap
	Poor- Worn out	Fair- Badly worn	Average	Good	Very Good
Excellent			954,125	1,029,125	879,898
Good		308,130	823,196	695,554	895,000
Average			755,831	614,605	692,246
Fair			710,980	715,929	653,525
No View	125,000	346,438	480,561	445,792	504,940

Distribution of Bedrooms
800 / 600 / 400 / 200
Frequency
Bedrooms (bin): 0 1 2 3 4 5 6 7

Distribution of Bathrooms
600 / 400 / 200
Frequency
Bathrooms (bin): 0 1 2 3 4 5

c. https://public.tableau.com/views/britishairwaysyoutube/Dashboard1?:language=en-US&:sid=&:redirect=auth&:display_count=n&:origin=viz_share_link

British Airways Review

3.280	4.189	1.436	2.381	3.032	2.870
Avg. Cabin Staff Service	Avg. Rating	Avg. Entertainment	Avg. Food Beverages	Avg. Ground Service	Avg. Seat Comfort

Pick a metric
- ● Overall Rating
- ○ Cabin Staff Service
- ○ Entertainment
- ○ Food
- ○ Ground Service
- ○ Seat Comfort
- ○ Value

Seat Type
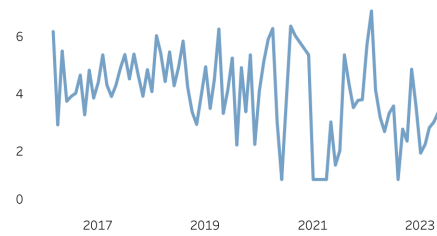All

Traveller Type
All

Aircraft group
All

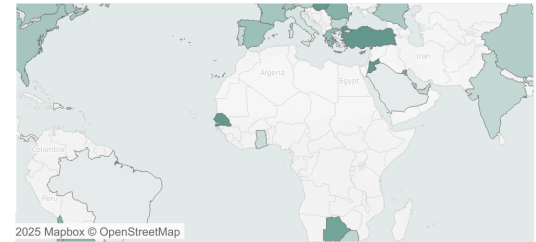**Month of Date**
March 2016 to October 2023 and Null values

Continent
All

Average Overall Rating By Month

Average Overall Rating

2025 Mapbox © OpenStreetMap

Average Overall Rating By Aircraft

Boeing 747-400
Boeing 747
Boeing 787
Boeing 777
A320
Various
A380
A319
Boeing 777-200

Overall Rating

Number of reviews