



A vibrant, futuristic forest scene where glowing green and orange trees stand tall against a dark background. Overlaid on this landscape are various data visualization elements: a large circular progress bar at the top left with the number '96' and a smaller one with '00'; several bar charts on the left side; a line graph with a yellow line and red bars; a scatter plot with blue dots; and a complex 3D bar chart on the right. A central, semi-transparent rectangular box contains the text 'Avner Gomes' in large, bold, black letters.

Avner Gomes

Forest Engineer
Data Scientist

Avner Gomes

Forest Engineer
Data Scientist

Education

- Master in Data Science, Nuclio Digital School, 2023;
- MBA | Forest Precision Management, UFPR, 2018
- Forest Engineering, UFPR, 2013



Recent Professional Experience

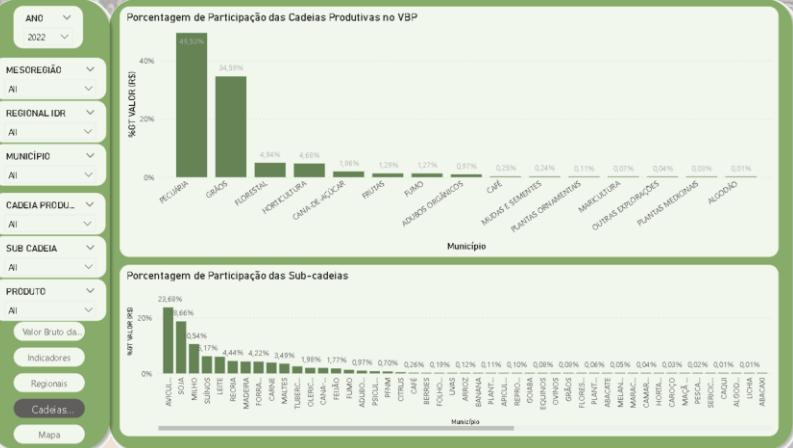
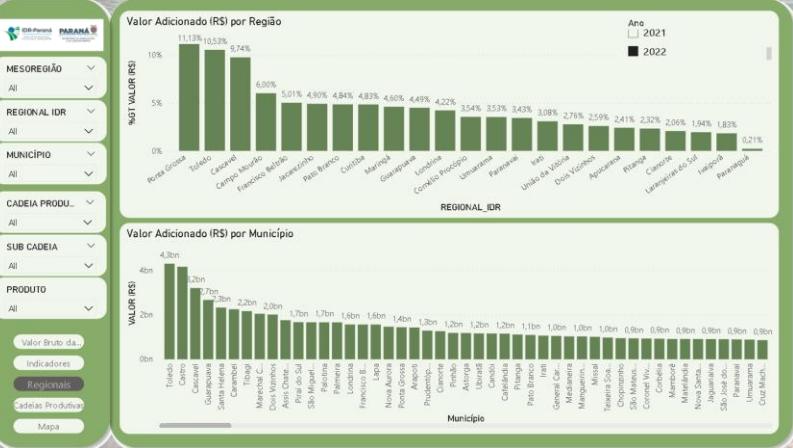
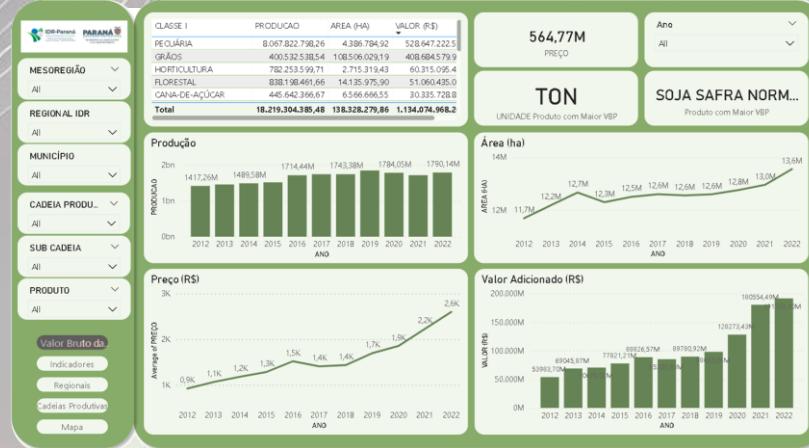
- **UpWork** - 2022 - Current
Professional Freelancer
- **IDR-Paraná** - 2018 - Current
Forest Engineer - State Program Coordinator
- **Solufor** - 2016 - 2018
Forest Consultant (Inventory and FSC Certification)





Main Projects

Dashboard - Gross Production Value - Paraná



Development Stages

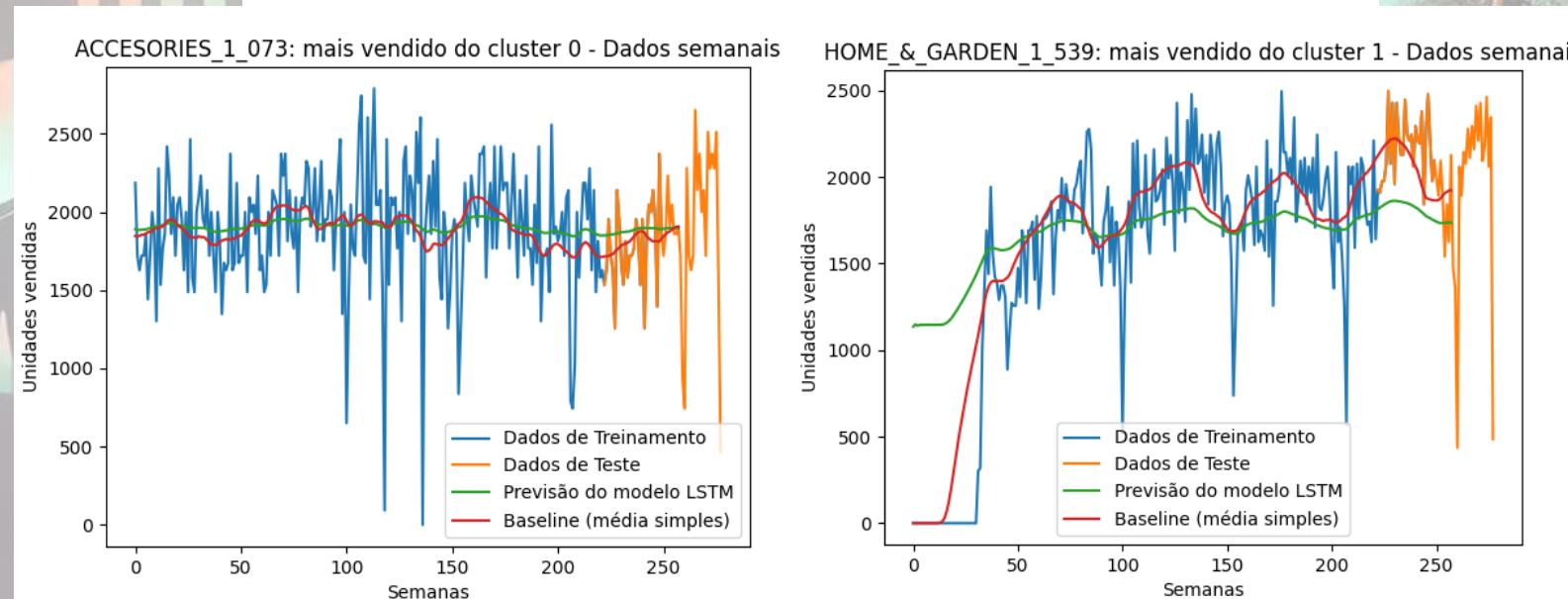
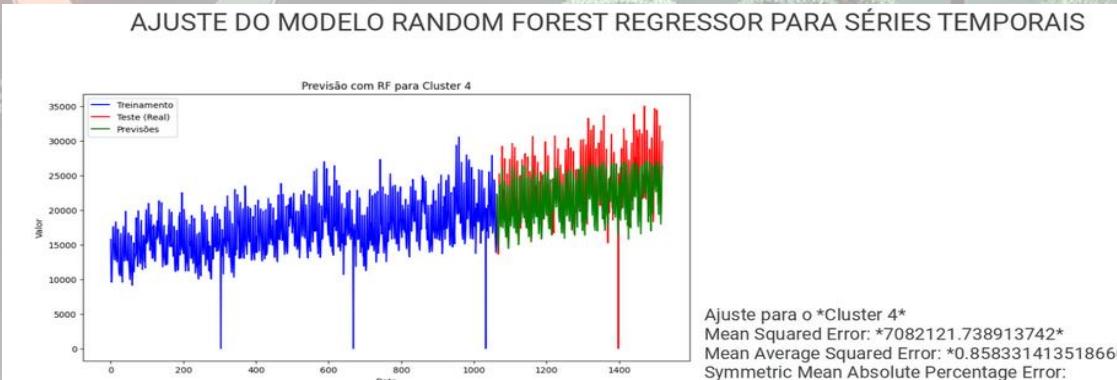
- Web scraping and ETL
 - Cleaning and Transformation
 - Visualization

Main Benefit

Support in defining priority production chains for Institutional Planning and drafting Cooperation Terms with Municipalities.

Main Projects

Capstone Project – DMarket (Data Science Master's)

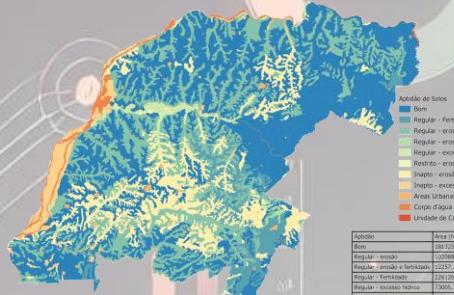


Development Stages

- Exploratory Data Analysis (EDA)
- Clustering
- Forecasting
- Deployment

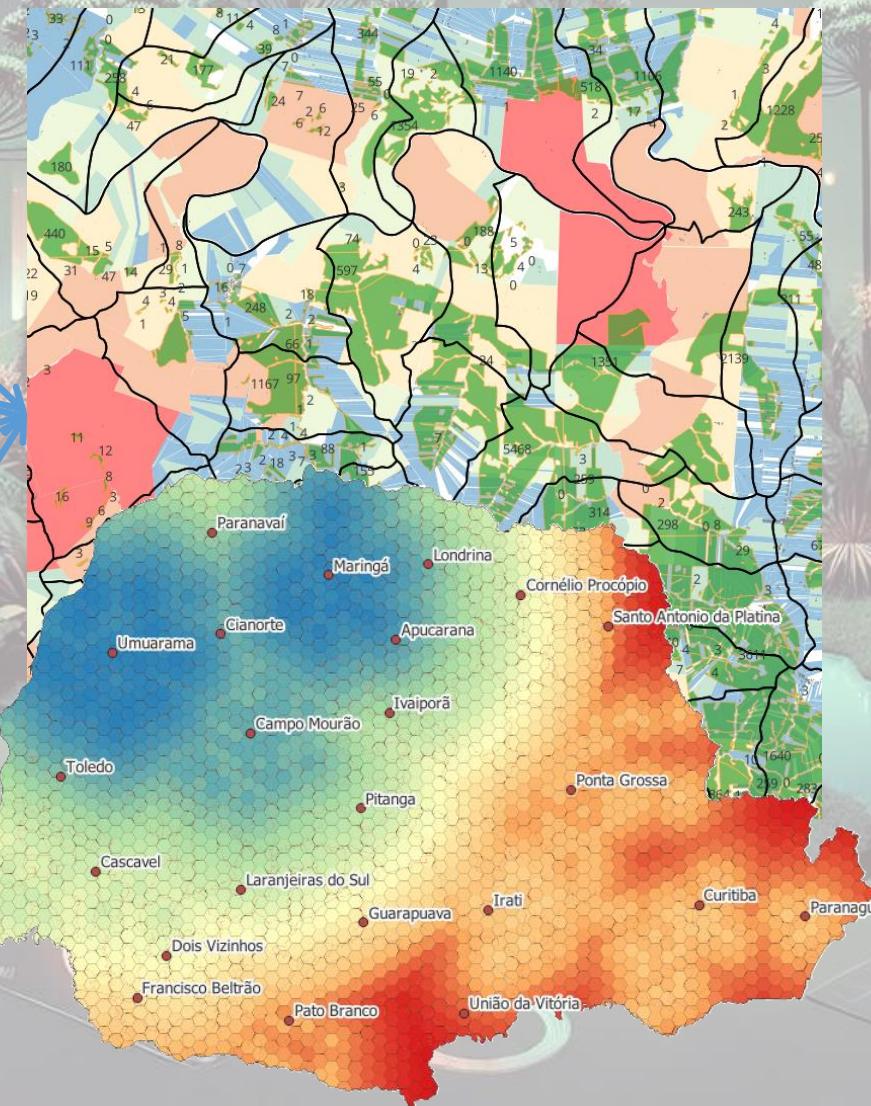
Main Benefit

- Helped design a pilot re-supply strategy for supermarkets.
- Delivered a full end-to-end pipeline: from raw data to actionable insights and executive presentation.



Main Projects

Forest Development Plan

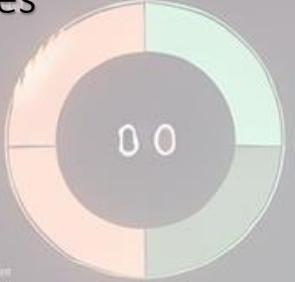


Development Stages

- Intersection of different layers of georeferenced information to define potential areas for the implementation of forest plantations.

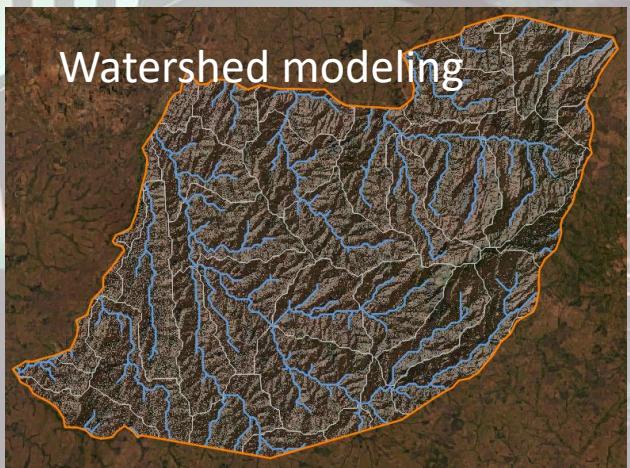
Main Benefit

Identification of higher-risk areas based on implementation costs and the decline in the price paid (at the consumer end) due to transportation costs.



Main Projects

Evaluation of Potential Area for Forest Restoration and Carbon Credit Generation - IN PROGRESS*

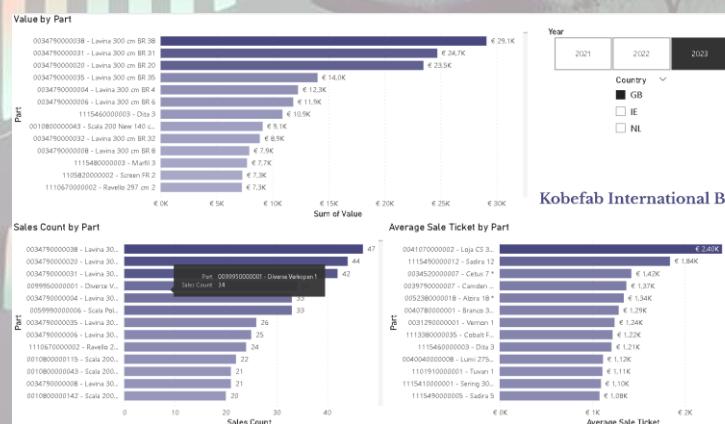
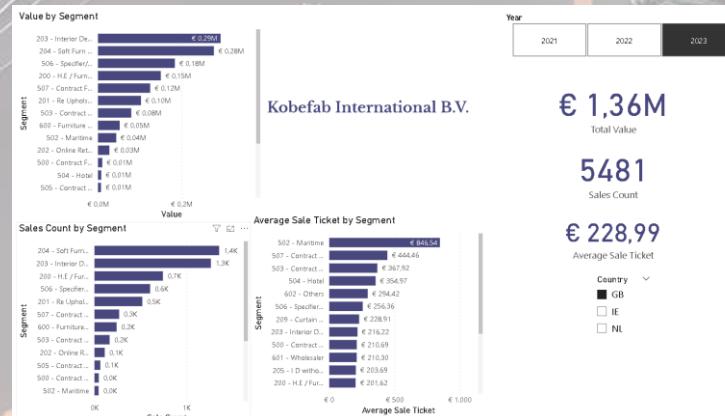
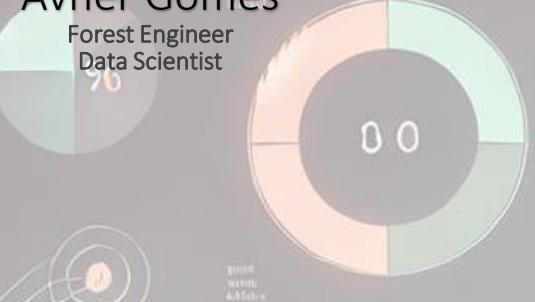


Development Stages

- Identification of the area of interest
- Collection of secondary data
- Acquisition of temporal images
- Measurement of deforested areas
- Estimation of carbon sequestration potential through restoration

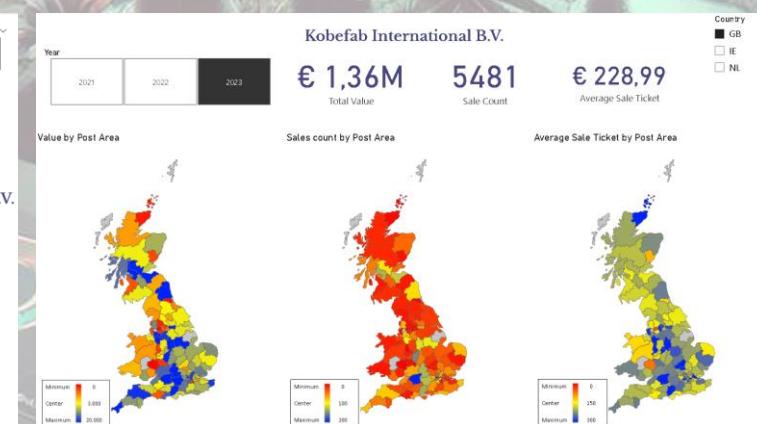
Main Benefit

Verification of the feasibility of the project, based on storage capacity and the costs of land purchase and seedling planting.



Main Projects

Business Intelligence

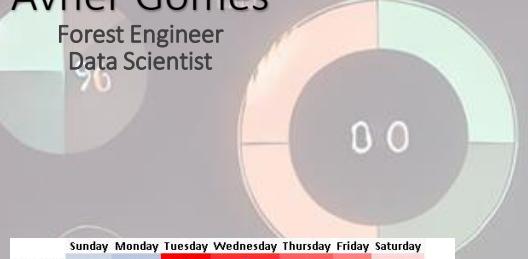


Development Stages

- Data Cleaning and Transformation
- Dashboard creation based on the client's needs

Main Benefit

Spatial distribution patterns by product, customer, region, and employee.



	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	
12:00 AM	1	1	6	5	4	3	2	
1:00 AM	1	2	4	3	3	3	2	
2:00 AM	1	1	2	3	2	2	1	
3:00 AM	1	1	2	2	1	2	1	
4:00 AM	1	1	1	1	1	1	1	
5:00 AM	1	1	1	1	1	1	0	
6:00 AM	0	0	1	1	0	1	0	
7:00 AM	0	0	0	0	0	0	0	
8:00 AM	0	0	0	0	0	0	0	
9:00 AM	0	0	0	0	0	0	0	
10:00 AM	0	0	0	1	0	0	0	
11:00 AM	0	1	1	1	1	1	0	
12:00 PM	1	1	1	2	1	1	1	
1:00 PM	1	3	2	2	2	2	1	
2:00 PM	1	4	3	2	3	3	2	
3:00 PM	1	4	4	4	3	3	2	
4:00 PM	2	5	5	4	3	5	2	
5:00 PM	2	5	4	4	4	5	2	
6:00 PM	2	5	5	5	5	5	2	
7:00 PM	2	5	6	8	5	4	3	
8:00 PM	2	6	6	6	5	4	2	
9:00 PM	2	6	7	5	5	4	2	
10:00 PM	2	7	7	5	5	4	2	
11:00 PM	2	7	6	5	4	3	1	
TOTAL	25	65	75	68	60	57	31	381

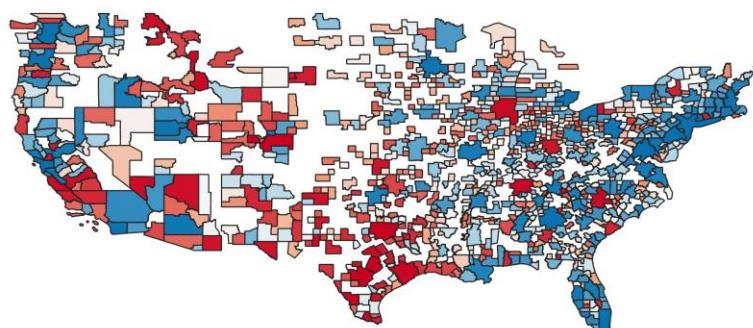
	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	
12:00 AM	0	0	0	0	0	0	0	
1:00 AM	0	0	0	0	0	0	0	
2:00 AM	0	0	0	0	0	0	0	
3:00 AM	0	0	0	0	0	0	0	
4:00 AM	0	0	0	0	0	0	0	
5:00 AM	0	0	0	0	0	0	0	
6:00 AM	0	0	0	0	0	0	0	
7:00 AM	0	0	0	0	0	0	0	
8:00 AM	0	3	1	2	1	2	0	
9:00 AM	0	4	3	2	2	2	1	
10:00 AM	0	6	4	4	4	5	1	
11:00 AM	0	7	5	5	5	5	1	
12:00 PM	0	7	6	5	4	5	1	
1:00 PM	0	7	6	5	5	4	1	
2:00 PM	0	7	5	4	5	4	1	
3:00 PM	0	6	5	4	4	5	1	
4:00 PM	0	7	5	4	5	5	1	
5:00 PM	0	6	4	4	4	3	0	
6:00 PM	0	4	3	3	2	2	1	
7:00 PM	0	2	2	2	2	2	0	
8:00 PM	0	1	1	1	1	0	0	
9:00 PM	0	0	0	0	0	0	0	
10:00 PM	0	0	0	0	0	0	0	
11:00 PM	0	0	0	0	0	0	0	
TOTAL	3	65	51	47	45	44	9	263

H dominated Markets S dominated Markets

Main Projects

Commercial Data Visualization and
Market Share Comparison

H and S Market Share Comparison by CBSA



Development Stages

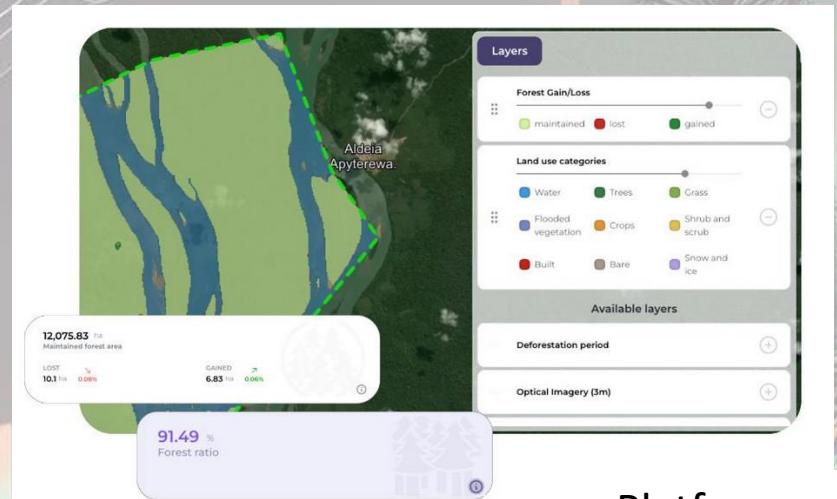
- Data Cleaning, Transformation, and Visualization of Customer Contact Data (phone calls and emails)
- Market Share Comparison of Companies in the Apparel and Accessories Sector

Main Benefit

Support in decision-making regarding the customer service team and marketing planning for different regions of the country.

Main Projects

Consulting for WebGIS Platform Development



Platform screen images



Development Stages

- Usability testing (customer perspective) and improvement suggestions for a WebGIS tool for visualization and generation of indicators based on satellite images

Main Benefit

Support for platform development with suggestions and new ideas.

Main Projects

Multi-Channel Ads & Ticket Sales
Analytics (Google, Meta, TikTok)

```
import pandas as pd
import re

# File path - vendas brutas
file_path = "C:\Users\avner\OneDrive\Área de Trabalho\1st Data\Ads>Show_conversion\Received\Daily Ticket Sales - Revenue 2.xlsx"

# Load all sheet names
sheet_names = pd.ExcelFile(file_path).sheet_names

# Process each sheet
processed_sheets = []
for sheet in sheet_names:
    columns_to_use = list(range(14))
    df = pd.read_excel(file_path, sheet_name=sheet, skiprows=1, usecols=columns_to_use)
    df = df.dropna(axis=1)

    original_columns = df.columns.tolist()
    show_column = original_columns[8]

    # Fill 'Show Month'
    df['Show Month'] = None
    current_month = None

    def is_month(row):
        return pd.notna(row[show_column]) and row[original_columns[1]].isnull().all()

    for index, row in df.iterrows():
        if is_month(row):
            current_month = row[show_column]
            df.at[index, 'Show Month'] = current_month

    # Drop month-only rows
    df = df.dropna(axis=0)

    # Add sheet name
    df['Sheet Name'] = sheet

    processed_sheets.append(df)

# Concatenate all sheets
final_df = pd.concat(processed_sheets, ignore_index=True)
```



Development Stages

Developed an end-to-end workflow covering data extraction, cleaning, integration across ad platforms, transformation into standardized metrics, and performance analysis of ticket sales by show and city.

Main Benefit

Enabled clear visibility of ad spend efficiency and ticket sales performance across platforms, supporting data-driven decisions to optimize ROI and sales velocity.

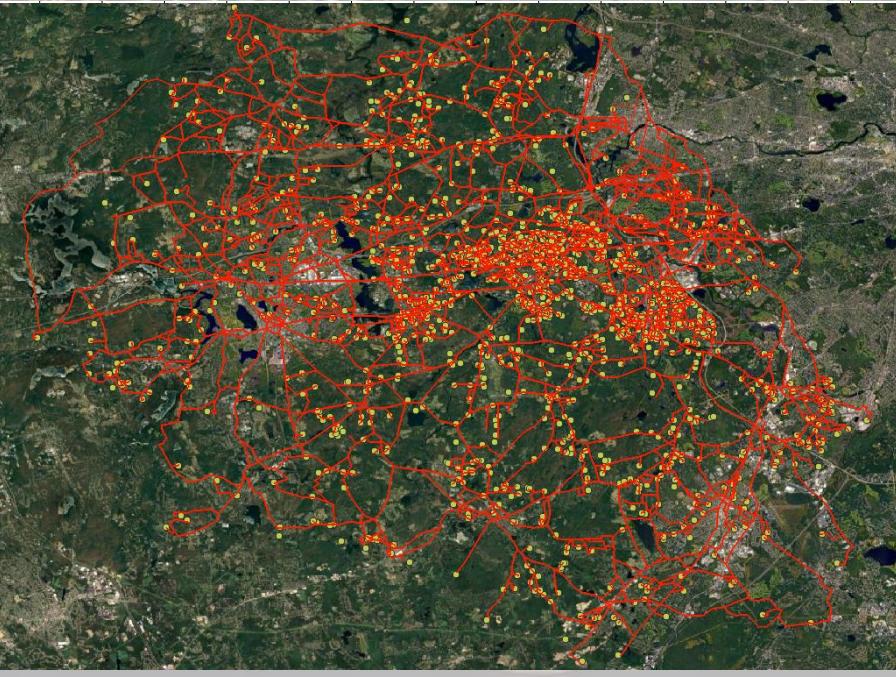
Main Projects

Distance & Duration Matrix
Development for Route Planning

```

1314631 valid pairs to process...
Downloading OSM network...
OSMnx routing: 100% | 1314631/1314631 [30:59:34<00:00, 11.78it/s]
2902 pairs failed with OSMnx. Trying ORS...
ORS fallback: 100% | 2902/2902 [11:33<00:00, 4.19it/s]
Distance matrix saved: Updated_Matrix_OSM_ORS_AllPairs.xlsx
Duration matrix saved: Duration_Matrix_OSM_ORS_AllPairs.xlsx
Routes saved to GeoPackage: All_Routes.gpkg
Log file saved: failed_pairs_log.txt
  
```

	1x	2x	4x	5x	6x	7x	8x	9x	11x
1x		0	3,82	5,45	5,47	5,88	4,93	7,02	9,23
2x	0		3,82	5,45	5,47	5,88	4,93	7,02	9,23
4x	3,82	3,82		3,22	3,24	3,65	2,68	4,78	7,13
5x	5,45	5,45	3,22		0,69	1,03	1,52	2,16	4,51
6x	5,47	5,47	3,24	0,69		0,41	1,2	1,55	3,9
7x	5,88	5,88	3,65	1,03	0,41		1,61	1,13	3,48
8x	4,93	4,93	2,68	1,52	1,2	1,61		2,74	5,09
9x	7,02	7,02	4,78	2,16	1,55	1,13	2,74		3,33
11x	9,23	9,23	7,13	4,51	3,9	3,48	5,09	3,33	
12x	5,32	5,32	3,09	0,55	0,15	0,56	1,05	1,69	4,03
13x	7,24	7,24	5,01	2,38	1,77	1,36	2,97	0,7	3,75
14x	5,36	5,36	3,45	1,13	1,59	1,63	1,83	2,58	4,28
15x	9,29	9,29	7,15	4,52	3,91	3,5	5,11	3,34	1,03
16x	7,24	7,24	5,01	2,38	1,77	1,36	2,97	0,7	3,75
18x	10,27	10,27	8,12	5,5	4,89	4,48	6,08	4,32	1,62
19x	9,4	9,4	7,26	4,64	4,02	3,61	5,22	3,45	0,65
20x	7,26	7,26	5,02	2,4	1,79	1,37	2,98	1,22	3,13
21x	7,23	7,23	4,99	2,37	1,76	1,34	2,95	1,47	3,89
22x	7,54	7,54	5,31	2,68	2,07	1,66	3,27	1,5	2,44
23x	4,87	4,87	5,77	4,67	4,7	4,66	4,89	5,34	5,66
24x	6,75	6,75	5,6	3,58	3,6	3,57	4,45	3,8	4,12
25x	6,57	6,57	5,42	3,52	3,55	3,52	4,39	4,17	4,49
26x	5,54	5,54	4,39	2,52	2,55	2,52	3,39	3,42	3,83
27x	7,23	7,23	5,72	3,15	3,18	3,15	4,02	3,38	3,63
28x	4,96	4,96	3,81	2,88	3,17	3,14	2,93	4,05	4,45
29x	6,75	6,75	5,6	3,58	3,6	3,57	4,45	3,8	4,12
30x	4,58	4,58	6,07	5,34	5,37	5,34	5,53	6,02	6,34
31x	3,85	3,85	5,33	4,9	5,32	5,28	4,95	6,19	6,59
32x	5,69	5,69	6,09	4,98	5,01	4,98	5,2	5,66	5,98
33x	5,59	5,59	4,44	3,18	3,21	3,17	3,56	4,08	4,48
34x	6,43	6,43	5,54	4,2	4,23	4,2	4,66	4,85	5,17
	5,79	5,79	4,65	2,11	2,14	2,11	2,98	3,01	3,66



Development Stages

From raw coordinates to a validated distance & duration matrix: data cleaning, route calculation, error handling, and client-ready reporting.

Main Benefit

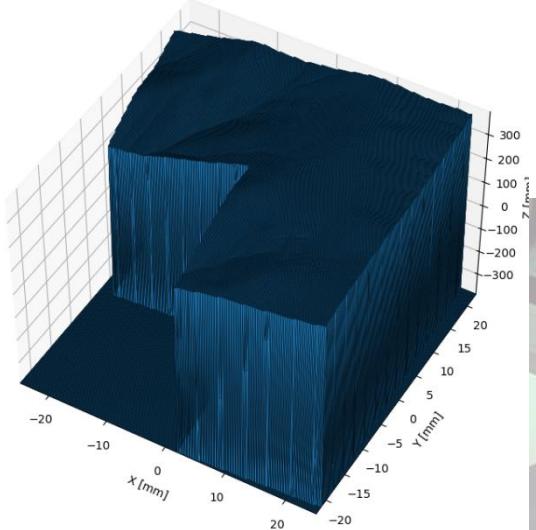
Delivered a reliable travel time and distance matrix that improves route planning efficiency and ensures accurate decision-making.

Main Projects

Geospatial Processing and 3D
Visualization for Land Development



STL preview — faces: 227,904 | z-exag: 1.0x | every: 1



Development Stages

- Processed LiDAR/DEM data for terrain analysis.
- Mapped roads, water, and points of interest.
- Created schematic and satellite maps.
- Generated 3D terrain model (STL).

Main Benefit

Clear maps and 3D model to guide planning and development.

Avner Gomes

Forest Engineer
Data Scientist

Main Clients



Avner Gomes

Forest Engineer
Data Scientist

Contact



41 98805-5737



avnerpaesgomes@gmail.com



[Avner Gomes - LinkedIn](#)



[Avner Gomes - UpWork](#)

