

# Marsel Khusnutdinov Data Analytics Portfolio

## Data Analytics Portfolio

This portfolio includes Data analysis and Data visualization projects from the real professional experience and home projects as well.

I've tried to show variety of professional skills I possess. Such as:

- Data scrapping
- Data cleaning
- Exploratory data analysis using Python
- Data visualization in Tableau and Power BI

Please note, that Titles of each project are clickable. You can find the details of projects by clicking those links.

## Project 1: Power BI System In Unite-Development Group.

This is the Financial Data Dashboard which we implemented during my work in the Unite-Development Group company.

The company's domain is commercial real estate management. The dashboard covered managers' requirements in different dimensions: by areas, objects, revenue, and expences groups.

BI System helped:

- To track Revenue and expences performance on an everyday basis;
- To see the budget execution for any period;
- Quickly understand the factors, affecting the indicators and make informed decisions based on the data.



Tools: 1C: ERP, MS SQL Server, MS Excel, Power BI

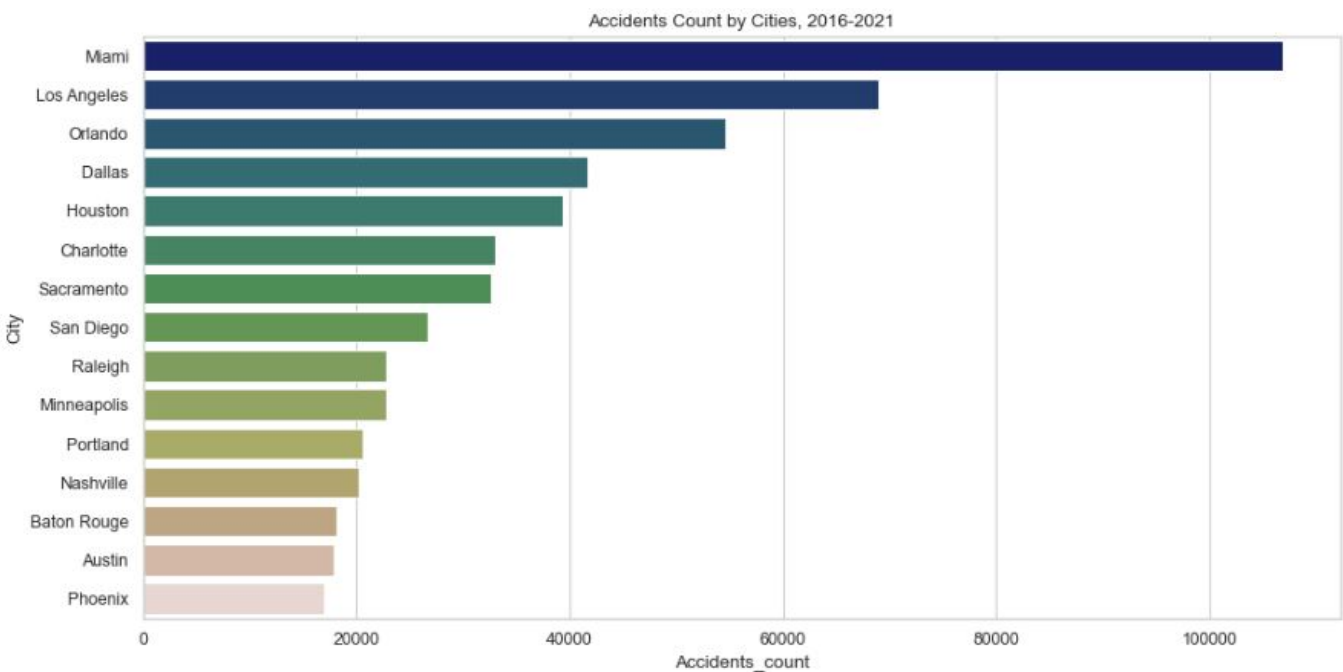
Note: the data in this dashboard is not real due to a NDA

## Project 2: Exploratory Data Analysis of US Traffic Accidents

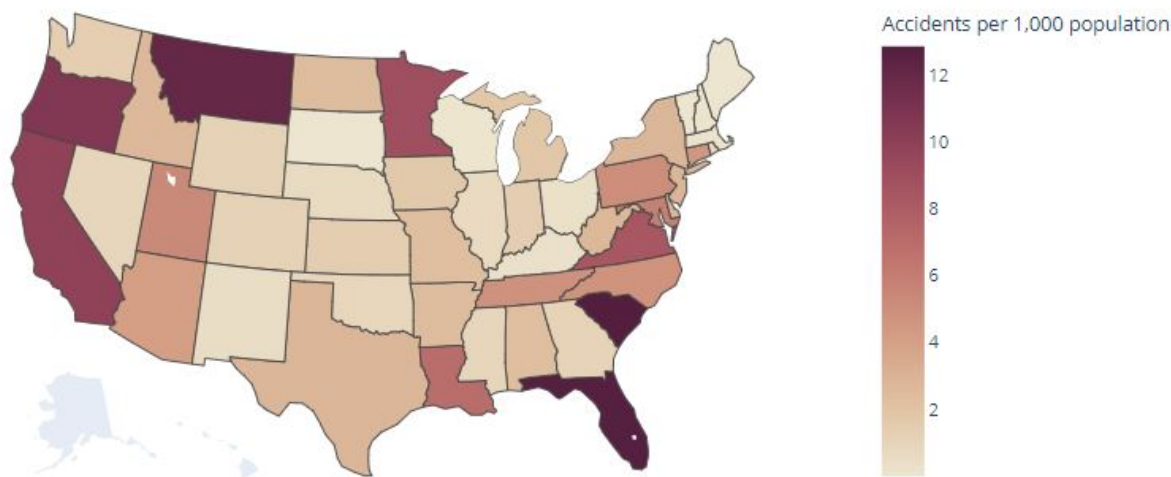
The purposes of this project are:

To understand the cities and states with the highest numbers of accidents - total and per 1,000 population. To understand the most dangerous time for driving during the year, week and day. Maintained steps:

- 1. Scrapping and cleaning data from Kaggle and Wikipedia sources.
- 2. Geographical analysis and charts creation.
- 3. Time Analysis and charts creation.
- 4. Results and Conclusions.



Accidents Per 1,000 Population By States, 2021

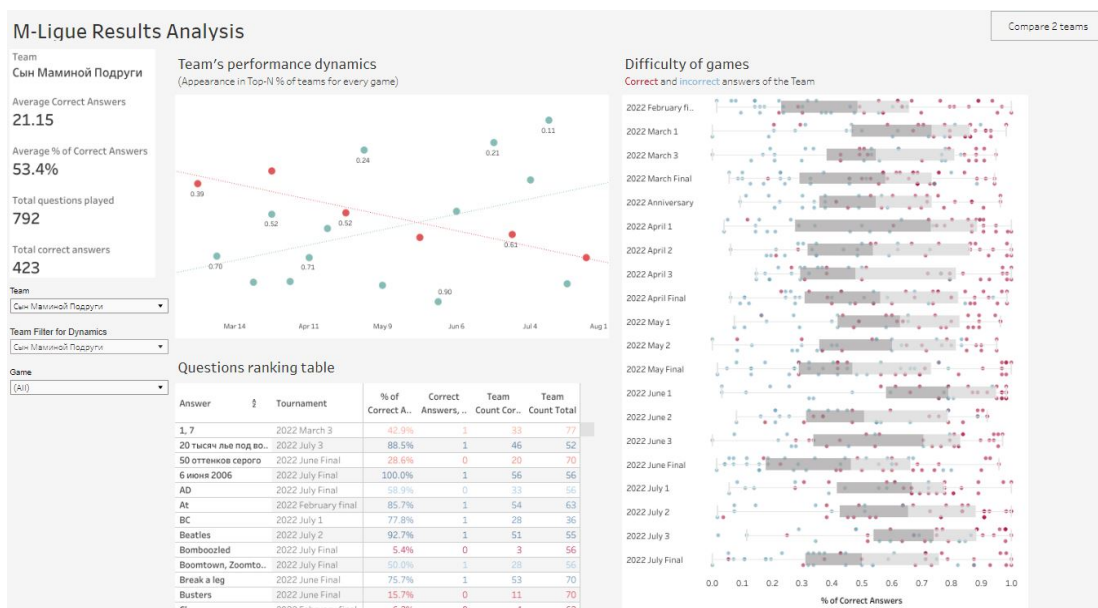


Tools: Python on Jupyter Notebook (numpy, pandas, matplotlib, seaborn libraries)

## Project 3: M-Ligue Tournament Results.

During the pandemic, the vast majority of intellectual games migrated online. One of the most attended tournaments is M-Ligue, where our team performing for almost a year. There was a necessity to create an updating dashboard that helps:

- To download, transform and append Results after every game into the Consolidated results database;
- To understand the team's overall results during all Championship;
- To highlight the domains where team members should develop their knowledge;
- To show if there is a correlation between the number of players and performance.



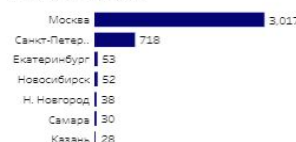
Here is the [notebook](#) showing data transformation steps.

Tools: Tableau, Python on Jupyter Notebook (pandas, openpyxl libraries)

## Project 4: Budget System of Russian Federation

The purpose of this dashboard is:

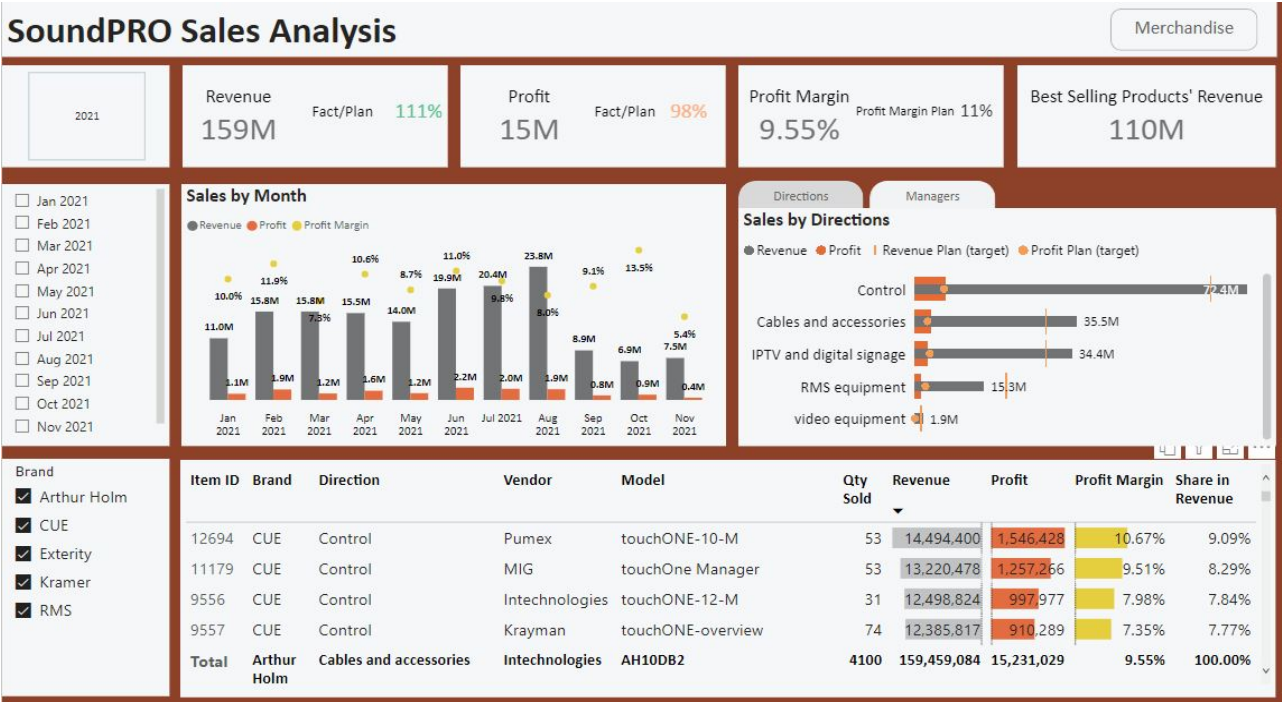
- To understand the distribution of hydrocarbon-related revenue and non-hydrocarbon revenues of state;
- To see the region's budgets on the structured map;
- To track the dynamics of federal expenses by expenditure items;
- To realize how much the budgets of the biggest cities are lower than Moscow's budget.



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- Understand sales performance by directions, managers, and months;
- Provide ABC XYZ Analysis;
- Perform the management of the stock.

I've also created [3 minutes-long video](#) on Loom platform, where I briefly described how the customer can interact with the dashboard.



Tools: Power BI, MS Excel