

## Data Analytics Course Project Index

Project #	Project Name	Description	Skill Focus
1	1_Banking_Loan_Division_Risk_of_Default_Analysis	The Bank Loan Division has provided data on customers' credit worthiness. We will evaluate the impact of certain personal parameters on the likelihood of default.	Compensating for less-than-perfect data. Handling missing and duplicate values. Changing data types. Systems thinking for analysts
2	2_Used_Car_Website_Sales_Trends_Analysis	Crankshaft List, website that publishes free advertisements for vehicles, has asked that we study sale data to ascertain which factors influence vehicle prices	Performing initial scans to detect patterns in data. Building basic graphs and generating first hypotheses
3	3_Telecom_Operator_Plan_Revenue_Analysis	Megaline is a telecom operator that offers two prepaid plans: Surf and Ultimate. We will analyze clients' behavior to determine which plan generates more revenue	Probability theory, the most common distributions, and statistical methods in Python. Sampling and statistical significance. Identifying and handling anomalies
4	4_Online_Store_Video_Game_Sales_Trends_Analysis	Ice is an online store that sells video games. To inform the upcoming advertising campaign, we will analyze historical game sales to identify patterns of successful games	Preparing data for analysis. Initial study of the dataset. Formulating and checking hypotheses
5	5_Ride_Sharing_Company_Passenger_Needs_Analysis	Zuber is a ride-sharing company based in Chicago. We will evaluate their data from 2017 to evaluate passenger needs and the impact of external factors on rides	How databases are organized and how to pull data from them using SQL queries. Finding data online
6	6_Marketing_Expenses_Optimization_Analysis	Afisha is a ticketing sales service. We will review customer product use, how much revenue /customer, and returns for expense optimization opportunities	The analytical approach to business. Business metrics and KPIs. User data analysis. Marketing analytics and related tools. The sales funnel
7	7_A_B_Testing_to_Boost_Online_Store_Revenue	On online store is looking to boost revenue. We will analyze the findings of an A/B test ran to determine if there is a leader or no difference between the two groups	Methods and tools for testing hypotheses. Experimental design. Seasonality. Cohort analysis. A/B testing
8	8_Market_Research_Analysis	An entrepreneur has decided to open a robot-run cafe in LA. We will perform market research to provide insights into the long-term demand trends for different eateries	Presenting the results of research. Data visualization methods. Creating reports to explain findings. The Seaborn library
9	9_Sales_Funnel_and_A_A_B_Test_Analysis	A startup selling food products is evaluating a change to its app. We will study the sales funnel and results of the A/A/B test to arrive at a conclusion regarding the change.	Study the behavior of users of an app for purchasing food products and analyze the results of an A/A/B test
10	To Be Uploaded	To Be Uploaded	Automating data analysis processes. Streaming analytics and decision-making. Event logging, creating regular reports. Dashboards. Real-time monitoring
11	To Be Uploaded	To Be Uploaded	Basic machine learning methods and applications. Classification, forecasting, clustering. Regression. Decision trees
12	To Be Uploaded	To Be Uploaded	Apply everything learned that recreates the experience of working as a data analyst