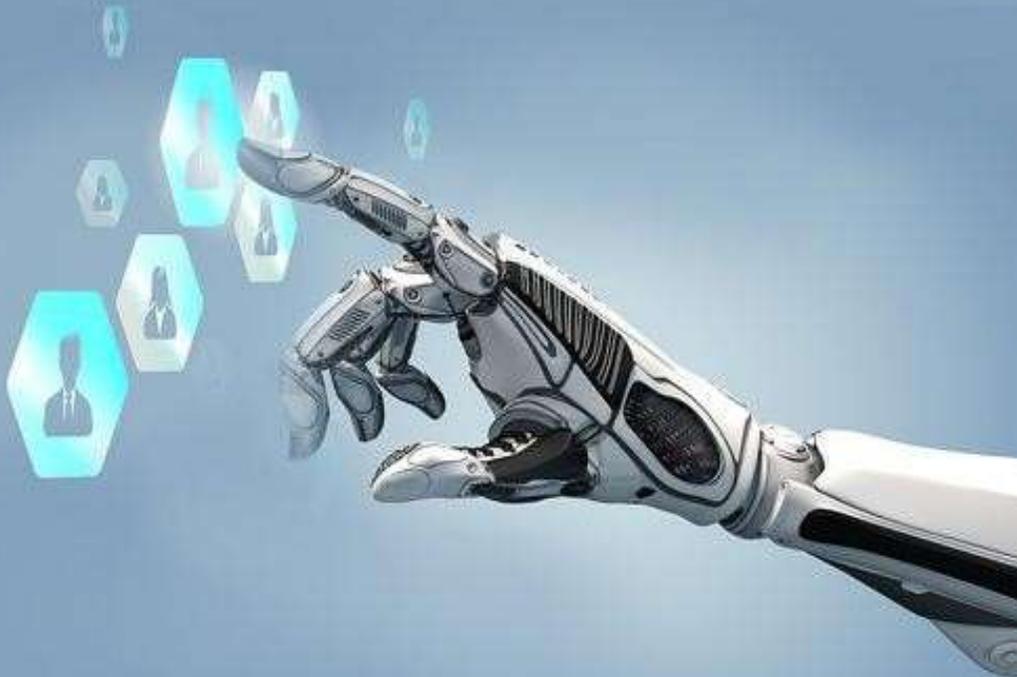


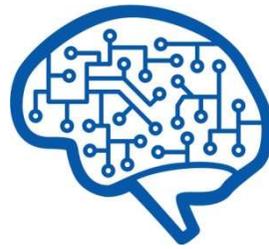
Software development company renowned for producing the highest quality services of custom for the world's most influential clients. We are providing creative solutions in the field of Artificial Intelligence, Blockchain and Virtual/Augmented Reality.

Has proven qualification of the employees in the hi-tech sector and experience in imposing trends on the global market, not just following established practices.

We cover the huge range of the latest software services to play a role in delivering aid work to your company. How can your organization harness its potential?

- ✓ Artificial Intelligence
- ✓ Blockchain
- ✓ Virtual/Augmented Reality.





Machine Learning



- Classification, Clusterization, Regression Models
- Image Recognition, Computer Vision
- Deep Learning
- Predictive Analytics
- Smart Filtering

Big Data



- Big Data Strategy, Architecture and Roadmap
- Technology and Tools Evaluation
- ETL- Extract, Transform, and Load
- Planning, Design and Implementation of Hadoop, Spark and other Big Data Environments
- Piloting and Proof of Concept
- Testing, Performance Tuning and Optimization

BI & Data Warehousing



- Data Warehouse Architecture and Implementation
- Data Delivery (Enterprise Reporting, OLAP, Dashboards, Geo Info Systems, Data Mining, Event Driven BI and Apps)
- Structured Search

Natural Language Processing



- Text Classification
- Text Summarization, Keywords Extraction
- Sentiment Analysis
- Named Entities Recognition
- Information Extraction
- Full-Text Search

Analytics & Forecasting



- Data Analysis and Modeling, Data Mining
- Data Discovery and Pattern Analysis
- Unstructured Data Analysis
- Analytics Mart Design and Development
- Operational Analytics Dashboards
- Diagnostic, Predictive and Prescriptive Model Design (Computer Vision, Spatial Analysis, Time Series Analysis and more)

Visualizations



- Static & Interactive Visualization
- Dashboards & BI Applications
- Data Visualization & Infographics
- Geovisualization

Aim:

Knowing your brand and having a hang of how to promote, develop and embrace new technologies always was the key to success. So, a lot of companies strive to make data science assist them for increasing brand value and getting better knowledge of the customer. One of the FMCG leaders, approached us with a need to expand their brand-line alongside with increasing the number of distribution outlets. The Initial and foremost goal was specified as prediction of customer response to various marketing collaterals and design elements, i.e. different advertisement types, external branding elements such as outlets, big boards, and even colour combinations used in visual materials. The company possessed a significant amount of historical data comprised of sales data and description of branding action of a particular moment. The final model was supposed to be complex and intended to detect any response within the predicted deviation of customer's behaviour or purchasing activity which might have been caused by promotional and/or advertising activities..

Solution:

Having considered the Client's current and future needs, the key points of the solution were defined as:

- fine-tuning of current Client ETL solution;
- multicomponent predictive model containing several sub-models;
- price elasticity and sensitivity model;
- embedded Bi-solution showing customer's response to any applied activities in both short-term and long-term time frames.

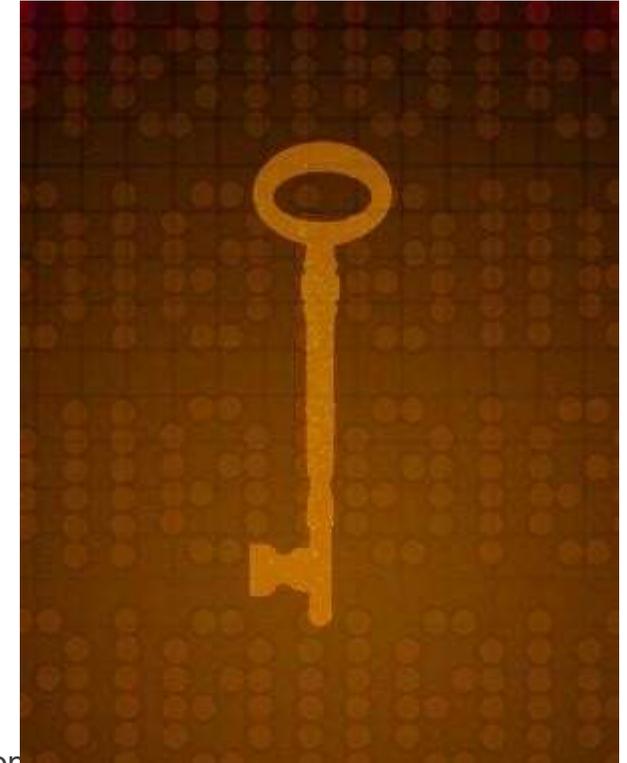
In order to implement outlined solution we involved SME (Subject Matter Expert) to help building more precise model by identifying all dependencies and nuances in the Client's business domain. Alongside with, a team comprised of Data Scientists and BI experts was set. Considering constant incoming data inconsistency and, subsequently, its effect on the model accuracy, we initiated setting up of support team to continuously monitor and fine-tune model and maintain high accuracy.

Expertise:

Big data Processing and Analysis,

Technologies:

R, Python, Tableau



PREDICTION OF A BILL VOTING OUTCOME

ARTIFICIAL INTELLIGENCE

Aim:

As long as **Data Science** technology stranding along the market it is covering more and more domains where it can be applied. Applying Data Science to the domain where not only behavioral analysis but decision pattern matters and affects the political and social outcome becomes sought-after.

One of the most renowned EU&USA publishers reached out to us with an intention to build a new value-added service for their subscribers focused on prediction of a bill-voting outcome in US congress.

Such service was offering an innovative, impartial and accurate approach to political analytics, as opposite to classic “expert” approach used by other players on the publishing market.

Solution:

The journey began with deep analysis of the problem and available data to solve it.

The main challenge was that in order to get high accuracy the machine learning model had to gather attributes of a bill and voting habits of senators from multiple non-congruent sources. Added complexity was the fact that both “bill” and “voter” are complex entities and specific voter decision regarding specific bill depends on multiple attributes and their combinations, therefore requiring advanced approaches for prediction.

Initial development team consisted of two data scientists and one DevOps. First, we built an API-like connector for grabbing and processing the data. A lot of work was dedicated to clean up existing data – all success of the model hinged on apposite data cleansing and enriching. Moreover, considering potential growth of external sources, current data processing module must have easily expendable architecture for rapid scale up once we have new source on the board.

Next step was dedicated to getting a full understanding of the data thus we ran a set of models to get descriptive statistics and full comprehension of the given data. Having the latter completed, we did the PCA (Principal Component Analysis) to understand the weights and how the key features do affect the outcome. After the all of abovementioned, we devised a plan of model testing – starting from 10 “competitors” we boiled a list down to the four key models and amalgamated them into an ensemble.

Technologies:

Python, SQL & noSQL, R, mLib, Spark



Aim:

We live in the “era of data”. Everyday companies face a compelling number of interactions with data source, and the more data is being produced, the more risks of this data to be used maliciously arise.

Our Client, European start-up had an idea of developing a solution for the forecasting of spear-phishing of personal data for a wide scope of organizations located in various countries. This type of solution is excessively sought-after nowadays – especially combined with ML approach for striking prediction accuracy.



Solution:

Firstly we defined main datasources: the pinnacle was VCDB database (catalog of data security incidents using VERIS framework). Second source used in the analysis is FT500 data set in 2016. Then, after merging these two data sets we obtained set for predicting data breach probability for a particular company.

Key ML models were GLM and Random Forest models with RF prevailing because of its higher precision. Moreover, after implementation of Monte-Carlo simulation methods we added prediction of incident density within particular timeframe. As an additional perk we predicted expected loss in USD in case of attack for various industries.

Technologies:

R, Python, mILIB

Aim:

Knowing your brand and having a hang of how to promote, develop and embrace new technologies always was the key to success. So, a lot of companies strive to make data science assist them for increasing brand value and getting better knowledge of the customer.

One of the FMCG leaders, Large tobacco company, approached us with a need to expand their brand-line alongside with increasing the number of distribution outlets. The Initial and foremost goal was specified as prediction of customer response to various marketing collaterals and design elements, i.e. different advertisement types, external branding elements such as outlets, big boards, and even colour combinations used in visual materials. Large tobacco company possessed a significant amount of historical data comprised of sales data and description of branding action of a particular moment. The final model was supposed to be complex and intended to detect any response within the predicted deviation of customer's behaviour or purchasing activity which might have been caused by promotional and/or advertising activities.

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Technologies:

R, Python, Tableau



Aim:

One of the leading Software Development Agencies (SDA) from the UK contacted us for cooperation on behalf of one of its Clients, who performed activities in the Content Media Market. The end-client successfully launched a platform similar to 9gag and Reddit alongside a mobile application. The Client's business was focused on enhancing platform monetization by increasing the end-user's loyalty and willingness to click & go to the partners' offers. The only way to achieve this was to provide content which would be interesting, relevant and eye-catching for the end-user and could keep him engaged for a prolonged time period. However, currently, the Client seeks ways to extend technological man- and brain-power support and he turned to experts in face of SDA.

Both parties treated this project as crucial and mutually-beneficial. From SDA's point of view it was challenging because of the scarcity of the Big Data experts market and the level of complexity in finding a solution without attracting external experts. From the Client's point of view the issue consisted of emerging amounts of the users' data, as well as a need in developing a strategy-related decision facilitated by grounded analytical results in order to increase the platform growth and market expansion.

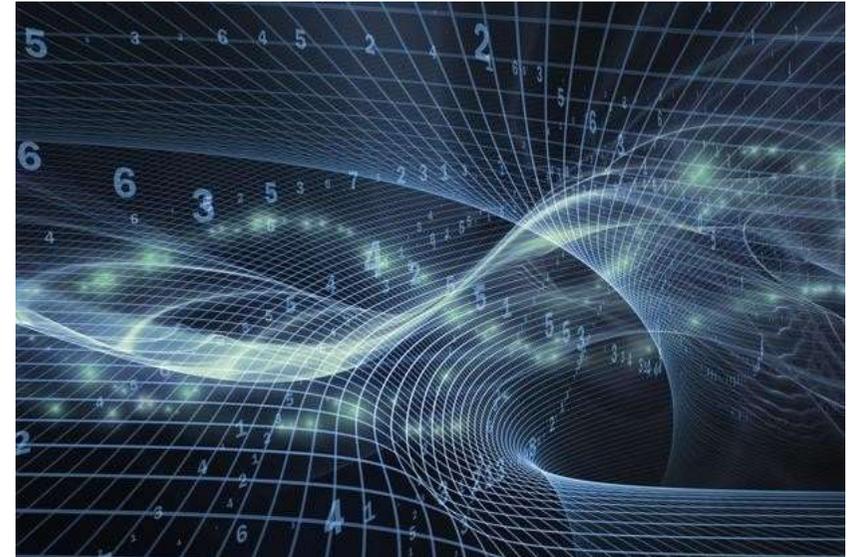
Solution:

The high-level goal was to build a recommendation engine which would use Big-Data analysis and machine learning to analyze individual end-users' preferences and to help discover new content accordingly.

The project comprised two substantial parts – setting up the dedicated team of experts for continuous collaboration and transforming business needs into added-value solutions, in addition to direct development of the aforementioned. We allocated two in-house experts, as well as quickly engaged one pre-interviewed expert from the HR pool. The proposed solution consisted of researching and developing two different Recommending Engines, each of which used different approaches (content-based and user-based).

Technologies:

- Python, Scala, Apache Spark



Aim:

A request for a visualization of a room covered with new wallpapers appears very frequently. Currently, all the design agencies can do to satisfy this need is to present drawings and models of interior designs created with 3D rendering applications or other software tools. The main drawback of this approach is that it takes several days to prepare the final image. Another option is to use applications, which enable to change only the confined set of prepared photos of the interiors. Both variants fail to deliver the level of performance the clients want.

The perfect solution implies utilizing instant modeling, which represented the main challenge due to its technical complexity.



Solution:

Our development team created a fast and easy-to-use application that works both on mobile phone and web browsers.

Artificial Intelligence methods analyze the photo in several stages to perform semantic segmentation of the room – the application recognizes the ceiling, floor, furnishings and decorations. Our algorithms distinguish even the small elements like pillars, wall niches, arches etc. To make the chosen wallpapers look natural on the result image, the algorithms also consider lightning, define depth and surfaces of walls.

There are many wallcovering options available – different colours, textures, and geometric patterns can be applied.

At the last step, the application replaces the existing wallcovering with a new choice, thus building a plausible model of a new room.

Technologies:

- Python
- OpenCV
- Caffe

Aim:

An employment platform is designed to help recruiters and job seekers in the IT community find each other. While looking for a candidate, a recruiter specifies the skills that a candidate must have for the job. Then, the recruiter gets a list of candidates ordered by the matching rates between the recruiter requirements and the candidate profile.

One of the most important matching criteria is the candidate's set of skills. The problem was that the original algorithm considered only the perfectly matched skills. Quite often job seekers indicate skills very similar to what a recruiter is looking for, but because of the strict nature of the search engine matching mechanism, those candidates were excluded and didn't appear among the search results at all.

Our objective was to improve the skill matching algorithm so it would behave more like an experienced and knowledgeable human recruiter.

Solution:

We enhanced the algorithm by implementing fuzzy matching of skills to make it consider similarity between related skills and the same skills under different names.

While checking a candidate for satisfying the recruiter skills requirements, the algorithm compares the required skill and the candidate's set of skills (so that the entire pool of the required skills is not forced to match exactly that of the candidate). This approach enables to evaluate similarity between the two skills being compared. Thereby the problem can be reduced to finding the extent to which a recruiter entered skill matches some candidate's skill.

Technologies:

- Pytorch



Aim:

Biological scientists, engaged in searching for complementarity determining regions (CDRs), fusion/chimeric constructs, recombinant plasmid constructs and bispecific antibodies, were in need of a reliable tool, which would enable search for multiple nucleotide (or protein) queries against the nucleotide (or protein) database. The challenge was risen due to the question of the project feasibility, as the tool for searching with several query sequences at that time hadn't been introduced before.

Solution:

Our team designed, developed and released a general purpose Multiple Sequence Search (MSS) tool, than can accept and search on up to six query sequences.

The MSS tool can be used to find and list documents that contain CDR sequences of interest. Also, one may perform a simultaneous search on multiple CDRs contained within the same patent document, taking into consideration that the CDRs might be present in different claims. The tool uses our enhanced version of the Smith-Waterman algorithm in order to produce not only accurate and comprehensive results, but also do it in a considerably shorter time (30 to 50 times than the standard Smith-Waterman algorithm). The interface makes it easy to track and see whether there is one or more than one similar sequence that might have been claimed within a single document. An advanced scoring system was designed to assign a higher score to those documents that contain a greater number of CDRs matching the search query, which produces more relevant results. The system also provides an option to show combined alignment. We also implemented a functionality to generate the reports (of 4 different file formats) based on the search results, allowing the users to clearly identify which query sequences are being aligned to the subjectones.

The created Multiple Sequence Search algorithm fully satisfies the requirements set and brings a higher degree of sophistication to the researchers.

Technologies:

C/C++ NVIDIA® CUDA® Toolkit



Aim:

The casualty insurance company was facing a large flow of fraudulent claims. The client was compelled to spend a lot of time and money in order to evaluate claims in terms of credibility.

The company was in need of an effective software solution that would detect fraudulent claims more precisely.

Solution:

We introduced a system of machine learning and analysis, that detects fraud with high accuracy.

At a first step, the system analyzes large volume of previously processed claims. By structuring primarily disparate information and revealing connections between multiple factors, the system identifies patterns of fraud.

Then, based on this analysis, it assesses new claims. The claims regarded by the system as fraudulent, are therefore handed over to human specialists for further investigation, along with a descriptive explanation on why it is considered to be fraudulent.

Implementing a cognitive system proves to be an efficient way to detect fraudulent claims in virtue of:

- fraudulent claims are detected with greater precision
- the huge amount of data is processed in a relatively short period of time
- the system reveals connections between a great number of diverse factors, which can be imperceptible for a person
- by the permanent review of existing claims, the program is able to discover new schemes of fraud

Technologies:

Business Analysis Java Oracle AngularJS Machine Learning



Aim:

One of the Leading Automotive Dealers (further – AD) that has been performing its activities since the 1990s in CIS and Eastern Europe is looking to increase the company's revenue by exploring new monetization opportunities. The idea is to use the data collected from smart devices installed into a car for Target Advertising and to increase additional revenue stream through presenting precisely targeted, high-quality ads to car owners and sharing added value with selected DSP and SSP platforms.

AD's internal analytics team required additional expertise which was not available at the moment, specifically: expertise in complex BigData processing and building SaaS solutions for IoT and Advertisement domains. Our team was able to offer the required expertise which laid grounds for further long term collaboration.



Solution:

As a result of Business Analysis stage, our team and AD defined key points of the solution:

- auditing the current DWH & ETL solution, and identifying collectable data and key characteristics about it;
- gathering data from GPS, smart devices and other gauges that could provide user data;
- clustering the user data based on key features;
- classifying users and providing initial ballpark prediction of users' response to target advertisement;
- analyzing historical data on users' responses to ads and using machine learning techniques to enhance responses' predictions over time.

In order to implement the solution, our company set up a dedicated team comprised of Big Data and Predictive Analytics experts who provided further mode improvement, support and consultation in the deployment process of this solution as a stand-alone solution for AD.

Expertise:

Big data Processing, Predictive & Advanced Analytics, Machine Learning, IoT

Technologies:

Apache Hadoop, Hive, Cassandra, Python, Scala, mllib

Aim:

Insurance industry is a highly competitive market which requires its players to constantly improve their value proposition. However, simple short-term strategies such as reducing prices and rendering discounts may lead to huge losses in a long run. Therefore, in order to be successful in the market, insurance companies have to be more and more creative in building and perfecting robust and precise models for proper insurance rate calculations and risk assessments.

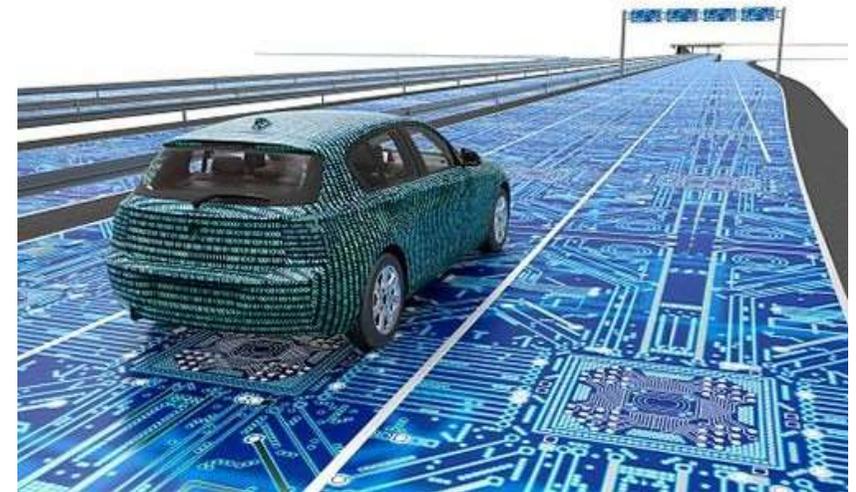
Being aware of successful cooperation between our company and one of Lead Automotive Dealer, an International Insurance Broker (further referred as IB) contacted us with an idea to develop a solution for a data-driven assessment. Being a partner of several automotive dealers, IB has an access to data received from in-car gauges and in-car smart devices. Therefore, there are two sources of available data: historical and descriptive data about users and the above mentioned data coming from devices, which build the foundation for increasing accuracy of the final model through determining a driving style and User's proneness to an accident. All the abovementioned components were evaluated by us as being crucial in terms of their impact on the final model and insurance rate respectively.

Solution:

Key points of solution for IB were defined as:

- choice of proper solution for handling streams coming from two data sources (internal from IB and external from ADs);
- data cleaning, noise and outliers reduction;
- development a Scoring model for risk level and proneness assessment;
- machine learning and model improvement within a specified period of time after its launch.

Based on the identified solution parameters and goals we set a team of Advanced Analytics experts along with DevOps and Data Warehousing specialists, which completed initial data cleaning and predictive model within two months and a deployment-ready version of solution within seven months; further, a support team was set up and introduced to IB.



Expertise:

Big data Processing and Analysis, Predictive Analytics, Machine Learning

Technologies:

Python, XGBoost, Neural Networks, Decision Trees



The proper execution of contracts could be verified by the network of computers connected to the Blockchain. We can help you to facilitate complex business and financial processes without a need to centralize trust with smart contracts.

Smart contracts & E-tokens



We can develop a cryptocurrency exchange to enable your business with cryptocurrency transactions using most of the prominent cryptocurrencies or with custom cryptocurrency tokens.

Crypto Asset Exchange



Such platforms offer integration of various payment methods, advanced reporting options, high-security standards for maintaining the funds and invulnerability.

Voting and Trading Platforms



We help businesses in multiple industry domains to create new business models with smarter and more secure Dapps (Decentralized applications) built on top of Blockchain technology.

Enterprise Grade Dapps

ICO

Development Pack

Basic

- Smart contract development.
- Token creation.
- ICO Landing Page design.

6900\$

Additional services:

- **High-end ICO Landing Page design.** Your project gets noticed. Guaranteed.
- **Whitepaper writing.** We will make sure that your investors understand your project.
- **PR-Services for any budget.** We will get you published even in Forbes!
- **KYC Development.** Make sure the funds you receive are legitimate.
- **And much more!**

CRYPTOCURRENCY EXCHANGE SERVICE

BLOCKCHAIN DEVELOPMENT

Aim:

is to provide exchange service to customers working with digital assets such as cryptocurrencies and tokens. Crypto-exchange facilitates trading and exchanging cryptocurrencies for fiat currencies or other digital currencies and vice versa. Services of storing cryptocurrency and sending it to digital wallet is provided.

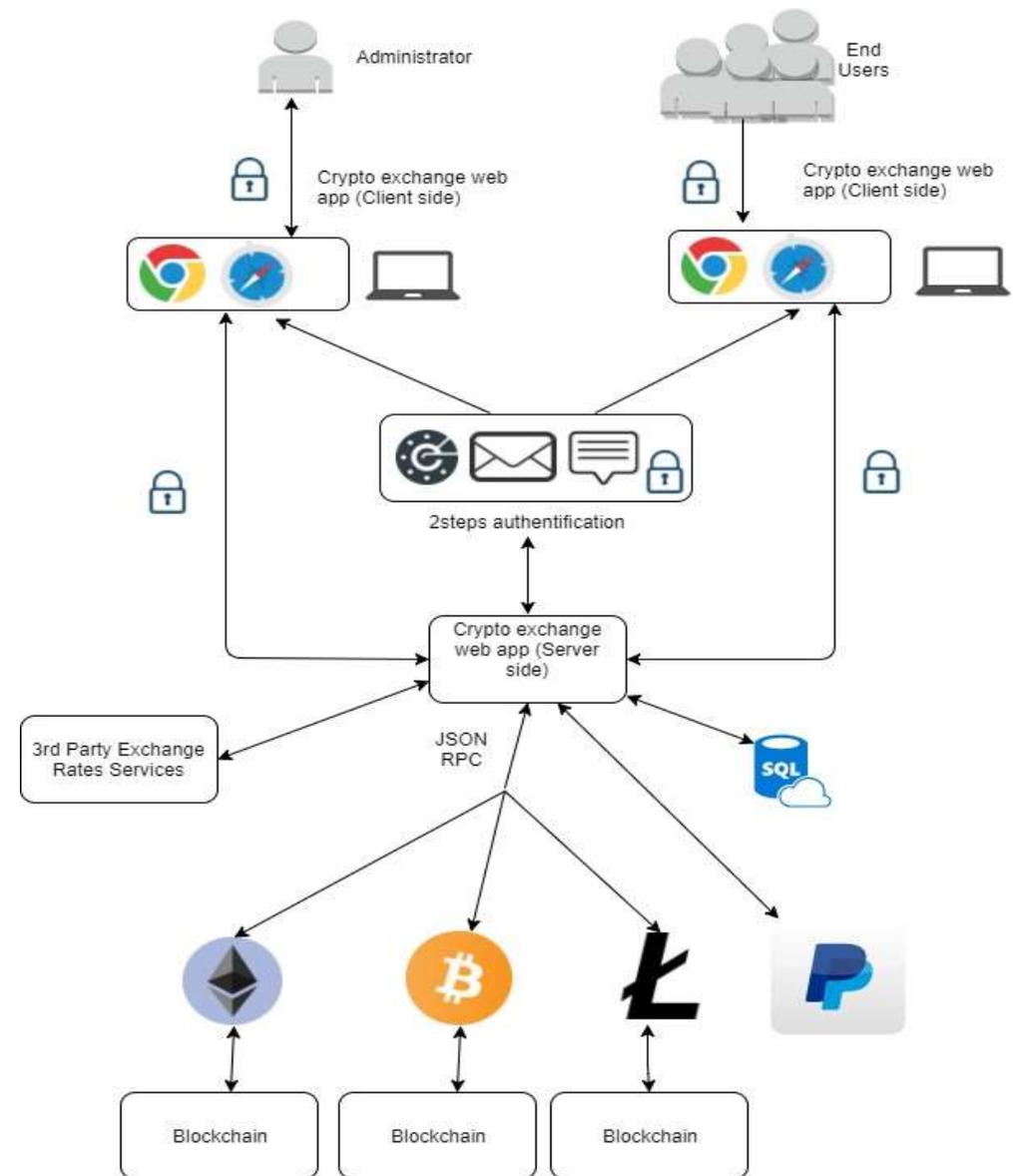
Solution:

Our team designed, developed and released high-quality crypto exchange solution from scratch. Service for the exchange of Bitcoin, Litecoin, Ethereum in between as well as for fiat money (USD and others) was developed. Various methods of two-factor authentication and Know your customer systems were implemented.

All services are available to user through Web-interface. The exchange is matching buyers and sellers when conditions of both the buyer and the seller are met. Users can set orders using exchange web interface and manage their funds.

Technologies and tools:

Java, Java Spring Boot, Angular 5, Cryptocurrencies RPC services (bitcoind(BTC), litecoind(LTC), geth(ETH)), PayPal API, MySQL, liquibase, Swagger



VIRTUAL REALITY AUGMENTED REALITY



SEE
THE FUTURE

VR/AR Game Development

- Complete design and development services for immersive VR/AR games
- 2D/3D games
- MMO games (with server side)
- Card games, Racing, RPG, Strategy, Point and Click games
- Integrity with Artificial Intelligence

VR/AR Commerce Solutions

- Product demonstrations
- Company events
- Live broadcasting
- Promotional activities
- and even sales

VR/AR Entertainment Solutions

- VR/AR-based branded user experiences
- Interactive 3D VR Visualisations
- Face filters
- VR/AR Museums and Galleries
- Virtual theme parks and theatres
- Music VR/AR experience
- Virtual Reality and the Adult Industry

VR/AR Showroom Solutions

- Give a Tour Without Leaving the Office
- 3D rendering
- Create a Living Record
- Show Concern for Sellers' Privacy
- Show Off Similar Homes
- Give Your Customers Time
- Establish Your Company's Presence



- ✓ Developing VR/AR apps for high-end devices like HTC Vive, Oculus Rift, Google Daydream View, Samsung Gear VR, Microsoft HoloLens any cardboard headset etc.
- ✓ Having unique experience using different SDKs (ARKit, ARCore, Vuforia etc.);
 - ✓ Developing VR/AR applications for mobile platforms (iOS/Android);
 - ✓ Developing VR/AR applications on Unity and Unreal Engine (UE) platforms;

Mill.10 is a gaming and educational application implemented as a part of LIPA.CLUB project. The idea behind the project is to get users acquainted with the characters of ancient Eastern European myths (Mill.10 application features 10 characters from Belarusian myths).

As a part of the project the following has been implemented:

1. Unity application for HTC Vive and a Release for Oculus Rift
2. 3D model of a mill (a real location in Belarus). Initially the mill has been created by the photogrammetric methods, later classic 3D modelling technologies have been added.
3. 3D models of characters supported by materials for a Mill.10 application presentation video designed to resemble the X-Files
4. 2D animation
5. LIPA.CLUB primary site (created HTML, JS, Node.JS)
6. Graphics (using design work), used by the project staff to organize a series of exhibitions supporting the LIPA.CLUB project.

Technologies and tools:

- Engine: Unity 5.4.1f1.
- Programming tools: Visual Studio 2015 Community, MonoDevelop.
- 3D modelling and animation tools: Autodesk 3ds Max, Autodesk Maya, ZBrush,
- Substance Painter, Substance Designer, 3D-Coat, xNormal, TopoGun.
- Photogrammetry: Agisoft PhotoScan, Adobe Photoshop.



The Real Estate AR App - INHome - is an innovative tool developed for the real estate agency for making highly effective presentations of construction and development projects in 3D format. The app could change the whole process of selling and buying estates. Integrating the AR technology to the Real Estate sector could be one of the best ways to leverage the [Augmented Reality Technology](#) for business.

INHome app allows to display blueprints of projects virtually so the user can 'be' on-site and experience the look and feel of the building being far from it. The user can have an overall look of the building, detailed view of the particular apartment using just a Smartphone!



INHome app allows the following:

- present a project on-site, in the office, at the shows and expos;
- view a 3D model of the building right on the table, no special space needed;
- let the clients take the virtual model and watch it anywhere they would like

After launching the app the user sees a panorama of the district where houses / apartments, which are available for purchasing or renting, are highlighted. After choosing an apartment / home, the user sees 3D model of the apartment/home and detailed information about it on the screen.

Three-dimensional models are fully controlled and can be easily manipulated to show all benefits to the users.

Technologies and tools:

- Programming Tools: Unity 2017, Visual Studio 2017, Vuforia 7, ARKit
- 3D Modeling Tools: Maya, 3Ds Max, Substance Painter, 3D Coat, Photoshop

AR APPLICATION ADDZER

AR-project with a main purpose to popularize Addzer.
Module developed by our company allows users to watch short AR Christmas movie with Santa Claus and a Christmas tree.

AR module is activated when marker with Addzer logo on it gets into a focus of a Smartphone camera.

Technologies and tools:

Engine: Unity 5.4.1f1, Vuforia.

Programming tools: Visual Studio 2015 Community, Android SDK.

3D modelling and animation tools: Autodesk Maya, ZBrush, Substance Painter, Substance Designer, 3D-Coat, TopoGun.

VIRTUAL REALITY AUGMENTED REALITY



**WORK WITH US
TODAY**



**NEW WAY
OF PROGRESS**

Why choose us?

- ✓ **4+ YEARS IN INNOVATIVE TECHNOLOGIES.**
- ✓ **REPLIES WITHIN 24 HRS.**
- ✓ **60+ HAND-PICKED DEVELOPERS.**
- ✓ **WE STICK TO ISO 27001 DATA SECURITY STANDARD.**
- ✓ **PAY AFTER ACCEPTANCE OF EACH PROJECT STAGE.**

Interested?

Contact the team by Skype or send us an email.