intetics

Where software concepts come alive™

Business Domain
Travel, Transportation, and Logistics

Project Type
Data Processing Platform

A Navigation Company Expands Car Parking Coverage and Automates the Processes with a New Data Processing Platform

Client

Founded in 2005, the Client's company pioneered the practice of managing traffic by analyzing data not just from road sensors but also from vehicles. Thanks to the breakthrough approach, the Client became one of the leading providers of data and insight on how people move around the world.

Project

Developing a Data Processing Platform that optimizes data handling and automates processes of finding a free parking spot using Machine Learning.

Objective

The Client required a new enhanced system that could analyze a big amount of parking data in real-time and find an empty slot for the driver. The driver experience should be enhanced and improved using ML&AI technologies.

Team Reinforcement

The Client's existing data processing team required reinforcement and new approaches to enhance the data handling. Offshore Dedicated Team® (ODT) was formed to empower the Client's team and reduce operational expenses.

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Challenge

The Client delivers innovative products for the automotive and transportation industries, such as real-time parking, traffic information, and solutions that facilitate the safe testing and deployment of autonomous vehicles.

The Client had a lot of manual processes in data processing. Many approaches were obsolete and included gaps in existing data processing capabilities of a major parking service provider.

The capacity and experience of the in-house team were limited, and they could not address database expansion and maintenance on their own, so they needed a trustworthy partner to address this task.

Quick Facts

- ✓ 5 years of continuous cooperation

- ✓ 70% of operational processes and project KPIs have been developed by Intetics ODT

- ✓ Over 1 million parking locations have been processed

Technologies

Python 3 / Django / Beautiful Soup / JS (JQuery, Jquery UI) / SQL / Postgres / HTML / CSS3 / Bootstrap / HTML / CSS / Google Spreadsheets API / Google Maps API / Google Data Studio / Microsoft Power BI / Visual Studio Code / Git / Bitbucket /JIRA

Solution

★ 01

The unique approach of Intetics' ODT met 100% of the Clients' requirements on data quality and processing. The productive collaboration has lasted for the past 5 years.

★ 02

Based on software development practices and a deep, practical understanding of the industry, the united team optimized data analysis. The solution reduced efforts on repetitive actions and let the team focus on analytical and verification tasks.
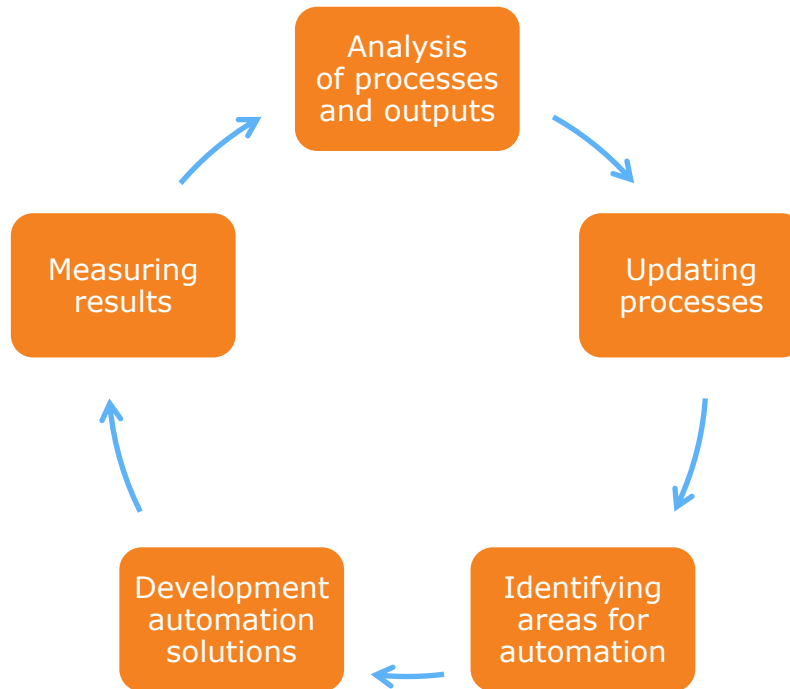
★ 03

The ODT reviewed existing processes and developed missing ones. Along with this, the ODT identified areas for automation and developed software solutions to reduce repetitive actions, perform automation QA checks, and improve reporting processes.

★ 04

Implementation of best practices from Lean and Kanban helps the Client speed up data processing and reduce costs.

★ 05

Drivers can now leverage one of the most full and accurate parking coverage databases to improve their parking experience.

Client Reference

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Our mission has always been to make parking easier, faster, and less expensive for consumers.

Client CEO

Benefits and Results

★ The new data processing approach helped the Client expand their parking coverage rapidly and become one of the top 5 companies in the industry.

★ The Intetics team accelerated the data aggregation speed and accuracy in record time, which left the Client more time for pursuing new market opportunities.

★ The Client was able to leverage the new data processing approach internally less than 1 year after the project started.

Techstack:

Python 3, Django, Beautiful Soup, JS, SQL, Postgres, HTML, CSS3, Bootstrap, HTML, CSS, Google Spreadsheets API, Google Maps API, Google Data Studio, Microsoft Power BI, Visual Studio Code, Git, Bitbucket /JIRA

Team: 20+

Project Manager, System Analyst, Team Leads, Developers. Data Processing engineers