

CASE STUDY

Oil and Gas Machine Learning Solutions

softserve

Customer Background

Our client is widely recognized as a global leader in delivering a secure, open, intelligent, and transformative enterprise cloud platform. Its technology is built on a private network and is the product of nearly 20 years of innovation in security, network architecture, collaboration, artificial intelligence, and open source software. Customers across more than 150 countries trust our client to modernize their computing environment for today's digital world.

Business Challenge

The oil and gas market was in need of a platform that could process different types of input files, extract meaning, and provide advanced analytic capabilities for particular geodesic problems. Our client sought to develop such a platform to address these issues and extend the number of services offered and increase utilization.

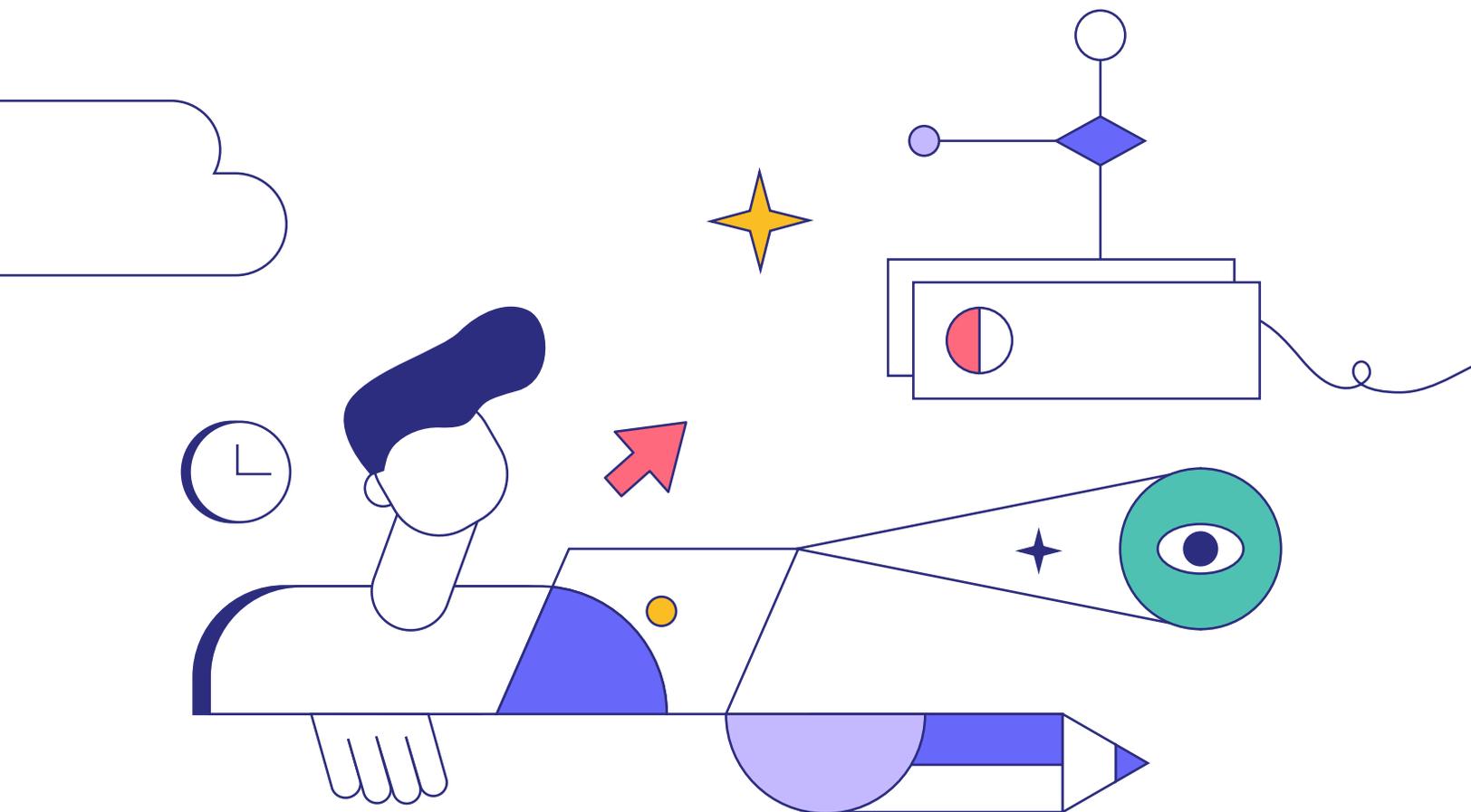
However, due to a lack of specific resources, they sought a highly skilled partner who could provide the core persistent resources that would grow with their business, as well as provide well documented solutions that allow for burst capacity as new opportunities arise. SoftServe has unique machine learning and cloud compute expertise, making us a solid development partner and go-to-market resource for major oil and gas opportunities.



Project Description

SoftServe's team conducted an initial machine learning (ML) workshop to capture significant domain knowledge and existing use cases, and then build out the solutions for the oil and gas business in a series of development sprints. The use cases around this project are primarily ML-based, and focus on above surface and subsurface solutions such as predictive maintenance, seismic data interpretation, and offshore IoT data analysis. An initial platform's workshop was done in Austin, Texas to scope out the ML resources before development of the platform began.

SoftServe's dedicated delivery team is comprised of two system architects, three to five ML engineers, one project manager, and one business analyst, who all have deep technical knowledge. Leveraging a range of innovative technology, including GCP's AutoML and CloudML, Kubeflow, Kubernetes, Vision API, NLP, Deep Neural Nets, and Generative Adversarial Networks, SoftServe delivered a platform able to work with structured (seismic and well logs) and unstructured (PDF, PPT) data. This created a more intuitive way to analyze, navigate, and search through data.

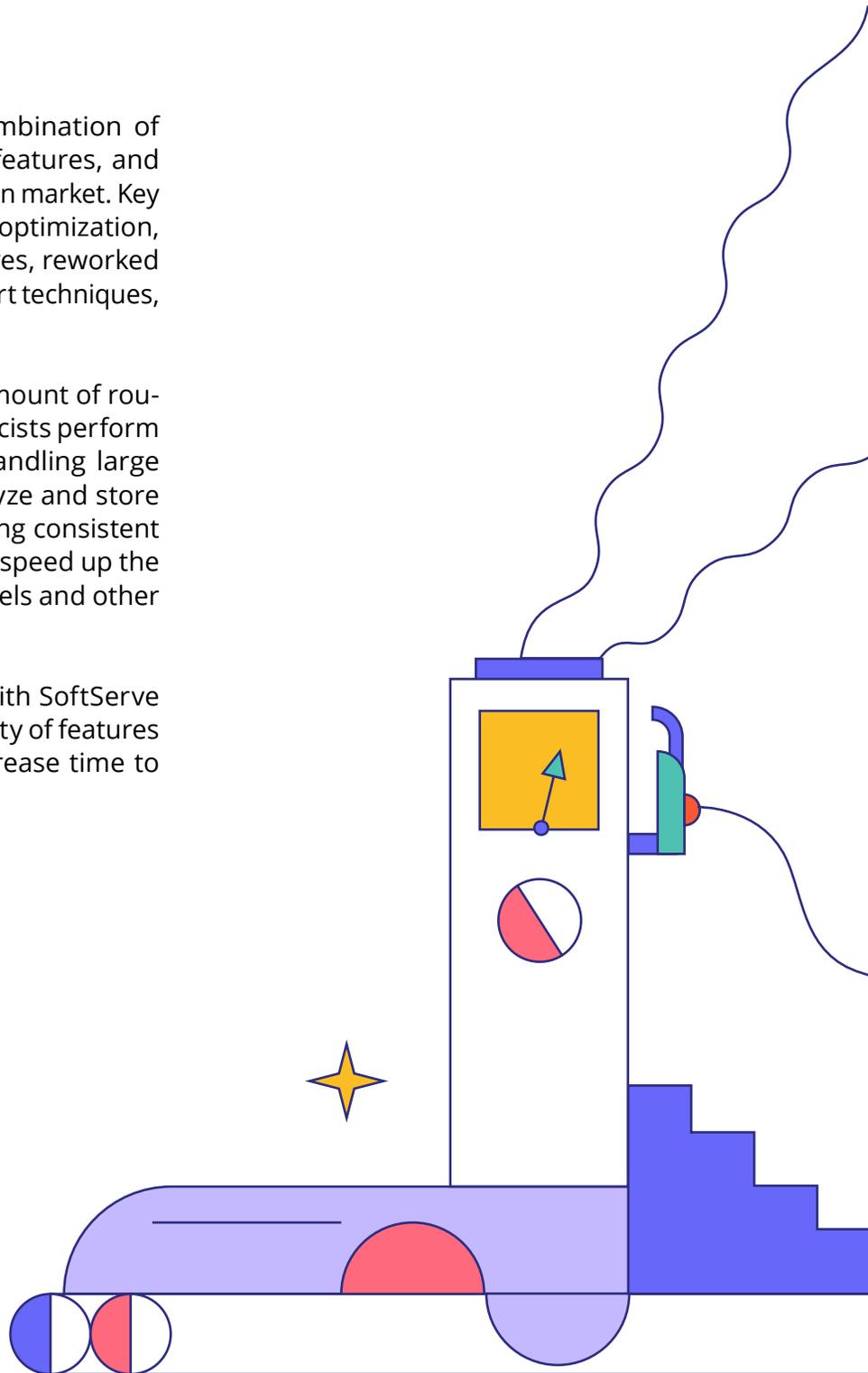


Value Delivered

This platform is a unique combination of advanced analytics, platform features, and cloud scalability unlike anything in market. Key benefits include performance optimization, the development of new features, reworked approaches using state-of-the-art techniques, and ideas productionalization.

It will automate a significant amount of routine manual work that geophysicists perform for oil and gas businesses, handling large amount of data to ingest, analyze and store information efficiently - ensuring consistent optimization. The platform will speed up the process of building basins models and other reports by 10-30x.

Our client continues to work with SoftServe to extend the number and quality of features in the platform as well as decrease time to market for its customers.



ABOUT US

SoftServe is a digital authority that advises and provides at the cutting-edge of technology. We reveal, transform, accelerate, and optimize the way enterprises and software companies do business. With expertise across healthcare, retail, energy, financial services, and more, we implement end-to-end solutions to deliver the innovation, quality, and speed that our clients' users expect.

SoftServe delivers open innovation, from generating compelling new ideas, to developing and implementing transformational products and services.

Our work and client experience is built on a foundation of empathetic, human-focused experience design that ensures continuity from concept to release.

We empower enterprises and software companies to (re)identify differentiation, accelerate solution development, and vigorously compete in today's digital economy. No matter where you are in your journey.

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