TIEMPO FLEX - DATA SCIENCE OFFERING

The Data Science Reality
According to Gartner

77%
Of senior executives view data science as being essential to the success of their organizations.

50%
Of organizations lack sufficient data literacy skills to achieve business value.

Today, while some companies are going through an education and experimentation phase,
those that invest in creating information from their seemingly chaotic data archives, are receiving benefits in operational efficiency, capitalizing on market shifts, discovering new solutions and even optimizing marketing spend based on knowledge of customer’s buying propensities. Maturing your Data Science Machine Learning capabilities leads to competitive breakthroughs.

Tiempo Offerings

FINDING NEW BETTER DECISIONS
> Identify / Refine business goals
> Define analytics approach
> Identify data sources
> Implement / Expand analytics
> Data governance
> Data science roadmap

DATA SCIENCE ON-BOARDING

OPERATIONALIZE ANALYTICS
> Ensure data-driving decisions
> Review automated processes
> Validate DS ROI attainment
> Regulatory compliance

DS HEALTH & VALIDATION
> Algorithms valid?
> System healthy?
> Best practices?
> Operational cost?
> Vendor locks?

DASHBOARD FUNCTIONALITY
> Data to information flow
> Communicate / Collaborate
> Clarify decision support
> Validate responsiveness
> User training / Education
Tiempo offers a variety of fixed-scope Data Science solutions that advance the strategies of Engineering and R&D Managers, CIOs and Security Officers and Chief Marketing and Digital Officers.

**TIEMPO INTELLIGENCE**

Do you have insufficient information to make optimal business decisions?

Tiempo Intelligence will:
- Properly frame business decisions.
- Determine the data sources and strategy required to support it.
- On-board the tools and techniques to deliver desired user experience and level of automation.
- Validate the tool’s functionality, cost and ROI.

Real life example: A multinational professional services company seeks to maximize favorable currency exchange when paying their overseas employees. Using Machine learning algorithms they were able to take advantage of cycles in the exchange rates to adjust pay dates for different countries.

The company was able to pay their employees under optimal currency exchange rates, which averaged out to a 4% raise (annualized) following a 5 month project.

**TIEMPO CHECK-UP**

Is your current Data Science initiative working well?

Tiempo Check-up will:
- Check for system health, ensure tools are working.
- Validate algorithms, make sure it isn’t GIGO.
- Check original expense objectives are being achieved and all data feeds being used.
- Expose any expensive vendor lock-ins and check ROI metrics.
- Help you through your next regulatory compliance milestone.

Real life example: A large medical product company, using deep machine learning tools for patient treatment determination, gets independent validation of their algorithms to demonstrate efficacy and functionality to an external regulatory agency.

The medical services provider was able to reduce their Data Science engineering expenses immediately by 64% (USA DS at $29K/mo and nearshore equivalent at $10.4K/mo). No impact to product development timeline, net reduction in product development costs and lower cost regulatory certifications.

**TIEMPO DASHBOARD**

Data Science not delivering clear, accessible insights?

Tiempo Dashboard will:
- Review data-to-decision pipeline.
- Clarify decision relevance and reinforce usability through better UI/UX.
- Ensure system responsiveness and ease of use.
- Eliminate collaboration turbulence and streamline processes.
- Reinforce original roll-out documentation and provide additional training.

Real life example: A commercial real estate company seeking to provide agents with bundles of properties to targeted clients, with a high propensity to buy, needed clearer and more concise decision support to guide their agents and overcome problems with the original system.

The commercial real estate company was able to reduce asset inventory time - average time a property was for sale - by 37% after a 4 month project.

**TIEMPO AUDIT**

Are your Data Science and business strategies aligned?

Tiempo Audit will:
- Confirm alignment of business plan and DS roadmap.
- Ensure Data Science tools/automation are functioning and at anticipated costs.
- Ensure decision support is feeding decision making cadence.
- Provide UI/UX fine-tuning to address new use-cases, retrain as needed.
- Validate ROI attainment of Data Science investment.
- Review and refresh for changes in regulatory compliance.

Real life example: Following a recent acquisition, an executive management team required an audit to fully understand the acquired company’s Data Science Decision Support environment and how to apply it to the new unified organization.

The incoming executive management team was able to preserve the ROI on the previous management team’s $150K DS project and sustain the “smart enterprise” design after one 8-week project.

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By 2022, more than half of major new business systems will incorporate continuous intelligence that uses real-time context data to improve decisions. ¹
Business Benefits of Tiempo Flex Data Sciences

Provides independent validation of proprietary machine learning algorithms based on the company’s internal test needs and regulatory requirements.

Provides validation of performance, both predictive efficacy, computational performance and queries cost of data lake formation.

Establishes efficiencies in test automation through ML based optimization regimes. Apply Data Science to automate DevOps processes. Selects the best subset of applicable tests.

Delivers dashboard in relevant formats to provide decision support for senior management teams.

Integrates dashboards into business workflows and processes at the senior management level or within the specific business processes.

Develops machine learning algorithms that examine security logs files to assess risks associated with specific types of threats.

Delivers information to support new product features, services, price-points, response times, quality of services, etc. Differentiates solutions through the use of data science or enhancements to BI metrics.

By 2021, 80% of data science labs that have failed to establish measurable operationalization practices will be outsourced. 

Optimizes the client company’s marketing spend by analyzing data from media channels, patterns of interest, customer surveys, sales history, call center activity, etc.

Secures additional resources to execute an already-defined project. Provides skill sets not available within the client organization.

Provides product ownership and converts requirements into a backlog for project execution.

Gleans information from existing CRM data regarding a client’s propensity to buy due to factors such as seasonality, industry/regulatory trends, events, etc.

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ARE YOU READY FOR DATA SCIENCE?
9 Important Questions to Help You Decide

1. Are all of your data feeds being utilized?
2. Are there data sources, for example social media, billing info and browsing history, that are not yet integrated to your model?
3. Are you locked-into a single vendor for Data Science analysis?
4. What are trends in business improvement since your Data Science implementation?
5. Are you using the most up to date analytical techniques?
6. What are the operational costs of your data science?
7. Are you achieving established Data Science ROI goals?
8. Have you operationalized the use of Data Science for decision making?
9. When was your last update to the Data Science Tool?

About Tiempo

Tiempo is widely recognized as one of the leading software engineering companies in the US. Using a combination of nearshore engineering resources, high-performance teams and relentless focus on client outcomes, Tiempo designs, builds and deploys software that makes lives better.

Tiempo is headquartered in Tempe, Arizona, with four worldclass software development facilities in Mexico. Tiempo has been recognized annually by Inc. Magazine as one of the Fastest-Growing Private Companies in America.

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1 “Data Science Best Practices to Achieve Project Success” Published 6 January 2020 - Gartner
2 “How to Operationalize Machine Learning and Data Science Projects”. Published 3 July 2018 - Gartner