

Cloud + Infrastructure

TRANSFORMATIVE DATA SOLUTIONS FOR SOFTWARE DEVELOPMENT

THE CHALLENGE

A prominent player in the energy sector aimed to venture into software development with the goal of transforming into a software-as-a-service (SaaS) provider for the industry. To initiate this transition, the company sought to undergo a substantial internal digital transformation, positioning themselves to offer their proprietary software to other nuclear power companies.

In pursuit of this objective, the company established a digital innovation team tasked with crafting analytical applications focused on preventative maintenance.

The intention was to market these applications to nuclear power plants throughout the industry. Executing this strategy entailed the development of novel digital tools designed to meet the rigorous standards of this tightly regulated sector.

Traditionally, the industry has adhered to a practice of regularly replacing steam pipes and reactor components on a predetermined schedule, regardless of whether the components were nearing the end of their operational life. This company sought to revolutionize this approach by gaining a more accurate insight into the actual lifecycle of these components. Rather than adopting a routine of shutting down reactors every two years for wholesale replacements, the goal was to develop a nuanced understanding of component longevity. Additionally, the energy company aimed to create a comprehensive inventory of replacement parts available in the market, steering away from the practice of manufacturing new parts for each refresh.



THE SOLUTION

Before the company could create innovative data-analysis software for component lifecycle management, they first needed to develop a software development capability, as they had no effective processes, procedures, or direction for developing software solutions.

To begin the first phase of the development process, Aditi provided business analysts to assess the current state of their software business and develop a comprehensive plan to create an agile organization from the ground up.

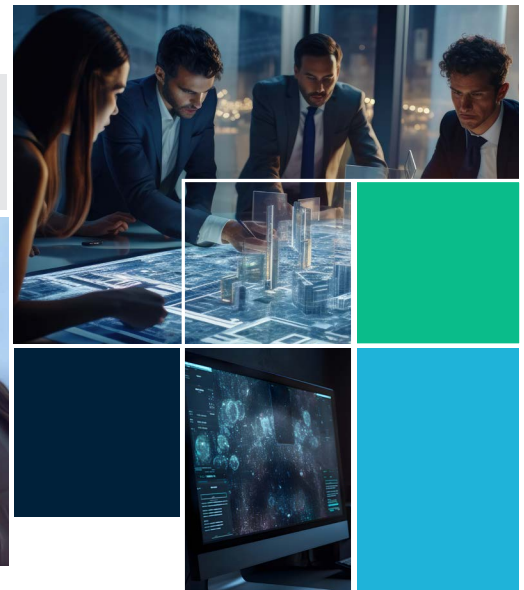
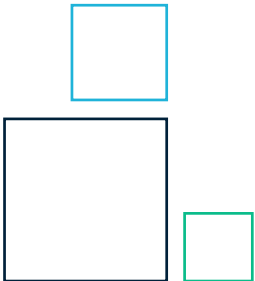
During the second phase of the digital transformation, Aditi facilitated the process by deploying software developers. These developers utilized the requirements and insights gleaned from phase one to construct a robust testing framework, laying the foundation for subsequent development efforts.

In the third phase, a larger team of Aditi deployed developers then created comprehensive software solutions for internal use, while also enabling the company to sell these solutions to other energy companies using a SaaS model. Overall, Aditi provided three Agile team leads, six developers, a UI designer, and a technical writer.

RESULT

Aditi kickstarted the energy company's digital transformation by conducting thorough business analysis and project management, laying the groundwork for future progress. Using this solid foundation, Aditi's software engineers developed a system to monitor steam-pipe integrity. They actively gathered data and leveraged advanced analytics to assess the lifespan of reactor parts, pinpointing qualified replacements. The result was user-friendly software that channels sensor data to an easy-to-use interface, empowering engineers to monitor operations efficiently, conserve resources, and minimize plant downtime.

Overall, Aditi took the lead on several key projects across all stages, from data acquisition, analysis, and UX design to architecture and execution. Aditi then transferred those teams and their projects over to the company for continued development operations. This process completely transformed the company's software services and increased company revenue by enabling the sale of software to other businesses.





ADITI EMPOWERS DATA DRIVEN TRANSFORMATIONS

Aditi leverages robust business analysis strategies, deploys expert talent and employs full-cycle project management to ensure transformative success. Ready to leverage your data's potential for strategic insights, enhanced productivity, and improved customer experiences through advanced analytics and the power of big data? We're ready to equip you with cutting edge data architecture and AI/ML processing pipelines that can revolutionize your decision-making processes, optimize performance and boost your profits with a tailored business intelligence solution. Contact us today to get started.

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