

2024



# ABJAYON

## DIGITAL ENGINEERING

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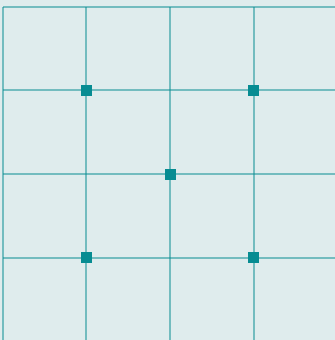
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# ABOUT COMPANY



Abjayon stands at the forefront of digital transformation and engineering, delivering solutions that blend AI/ML, advanced analytics, cloud mastery, and cross-industry expertise to drive your business into the future.



# WHY ABJAYON?

1

## Proven Track Record

- Industry product development: hospitality, healthcare, education, utilities
- Java, .Net, C#, JS frameworks, Cloud Services, Oracle Utilities

2

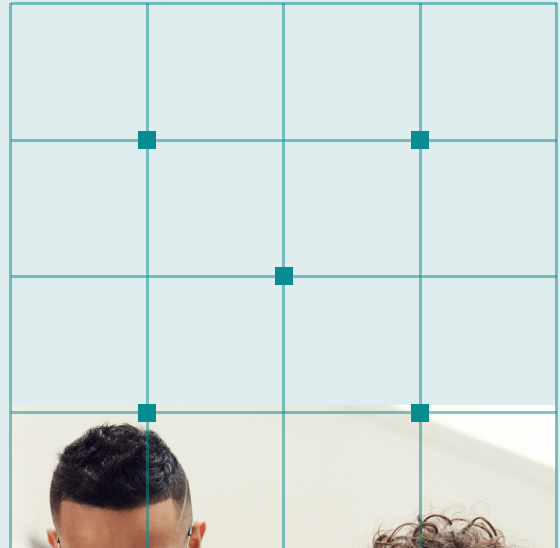
## Deep Engineering Expertise

- Comprehensive enterprise solution development lifecycle know-how
- 350+ strong, rapidly expanding team across the globe

3

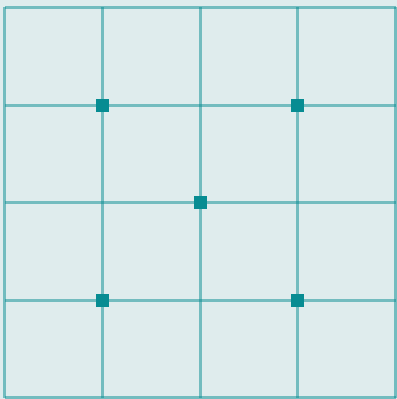
## Strong Leadership

- Technical leadership in enterprise solutions
- Management with 25+ years in IT
- Diverse tech solutions architected





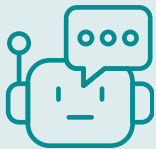
# DIGITAL ENGINEERING OFFERINGS



AI/ML



Data Engineering



RPA Chatbots



Data Modernization



Product Engineering



DevOps



Infrastructure Support  
& Modernization



Cloud Security



Product Testing

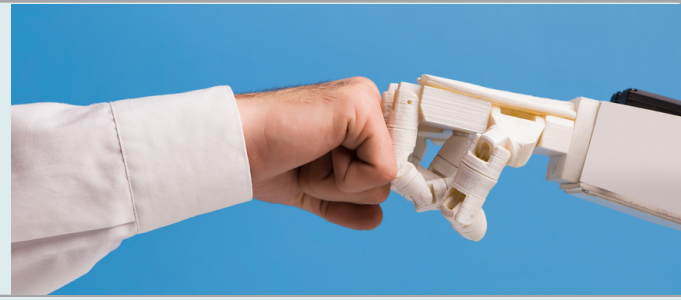


AWS Consulting





AI-ML



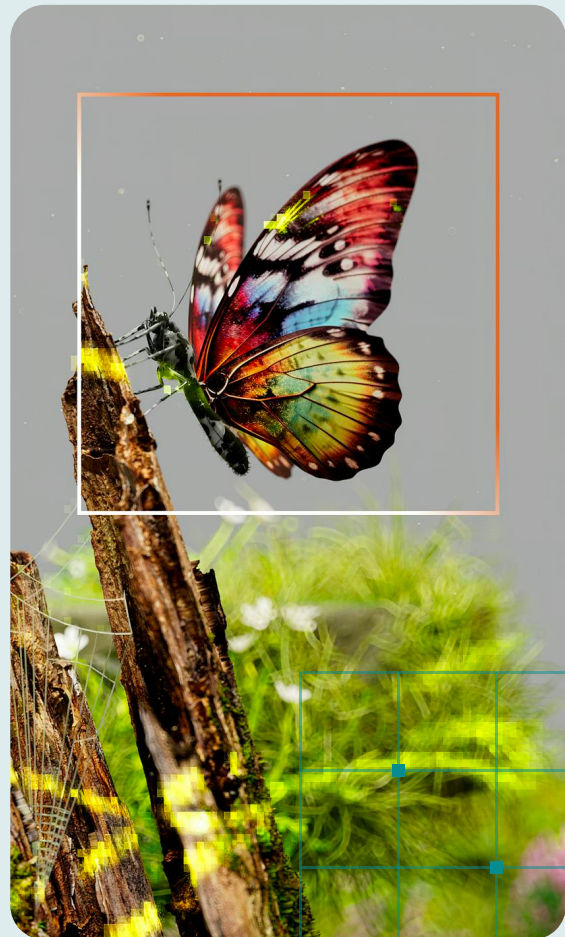
AI/ML & Data Strategy

Custom AI/ML Solutions

NLP & Predictive Analytics

AI/ML Automation & Deployment

AI/ML Training & Sector  
Applications  
(Healthcare, Energy, Water)



TECH STACK



## AI-ML

### SUCCESS STORIES



Created AI/ML based revenue protection system for a large distribution company in Middle East

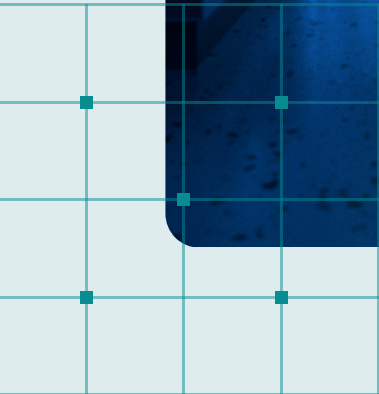
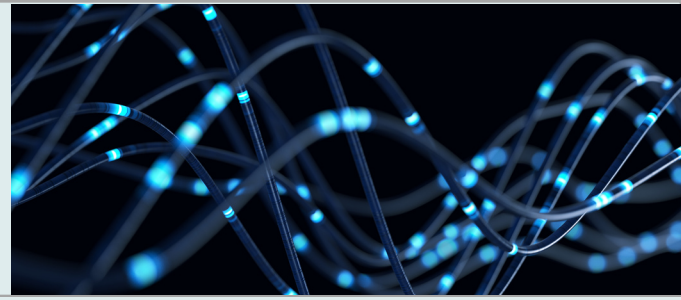
### USE CASES

- AI chatbots for instant customer support
- ML for predicting outages and proactive notifications
- ML to detect potential electricity theft and alert agents.





# Data Engineering



## Data Management:

Architecture, Ingestion,  
Processing, Storage

## Data Quality

Integration, Validation,  
Governance

## Data Security and Pipelines

## Cloud and Big Data Technologies

### TECH STACK

- Kafka, Spark
- Redshift, BigQuery, Snowflake, Teradata
- S3, Azure Data Lake
- PostgreSQL, MySQL, Oracle, StarRocks
- Airflow, Talend
- Elastic Stack
- Docker, Kubernetes
- GitHub, GitLab, Bitbucket
- AWS, Azure, GCP



# Data Engineering

## SUCCESS STORIES



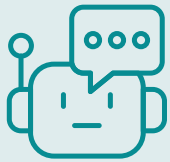
- Integrated EHRs, medical devices, and patient feedback data
- Utilized secure pipelines and cloud warehousing for real-time analytics
- Monitored vitals and used predictive models for health risk identification



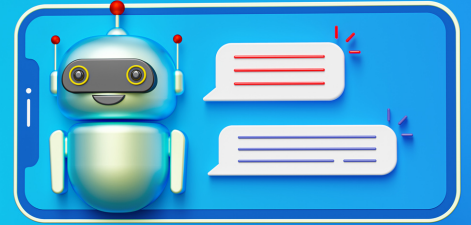
- Optimized energy network and operational efficiency
- Implemented real-time processing and predictive maintenance
- Used cloud storage and analytics for data-driven decisions
- Enhanced grid stability with fault identification and load balancing

## USE CASES

- Designing and implementing data warehouses for centralized business intelligence
- Building real-time data pipelines with Kafka for timely decision-making
- Integrating diverse data sources into a unified dataset for comprehensive analysis
- Developing ETL pipelines for data extraction, transformation, and loading



## RPA & Chatbot



Process Assessment  
and Consulting

RPA Development and  
Implementation

Process Automation and  
Optimization

Custom RPA Solutions

RPA Maintenance and Support

Chatbot Development and  
Deployment

### TECH STACK





## RPA & Chatbot

### SUCCESS STORIES



Implemented RPA for a leading healthcare provider to streamline manual processes, enhancing efficiency and customer service.



Introduced Chatbot Services for a utility company to boost customer engagement, simplify service request submission, and improve information access.

### USE CASES

- Chatbot to assist users in scheduling appointments, cancelations, and rescheduling. Chatbot to provide patients with instant access to healthcare information, such as test results and medication details
- Chatbot to handle routine customer inquiries, provide information, and troubleshoot common issues
- Chatbot to handle HR-related inquiries, such as leave requests, policy information, and benefits queries



## Product Engineering



### Frontend Programming



### Backend Programming



### Data Engineering & Analytics



### Integrations

#### TECH STACK



## Product Engineering

### SUCCESS STORIES



Patient Engagement Platform for a healthcare leader to boost patient interaction and care.



Streamlined communication for improved healthcare service delivery.



Next-gen Cruise Property Management System for a cruise operator to enhance guest satisfaction.



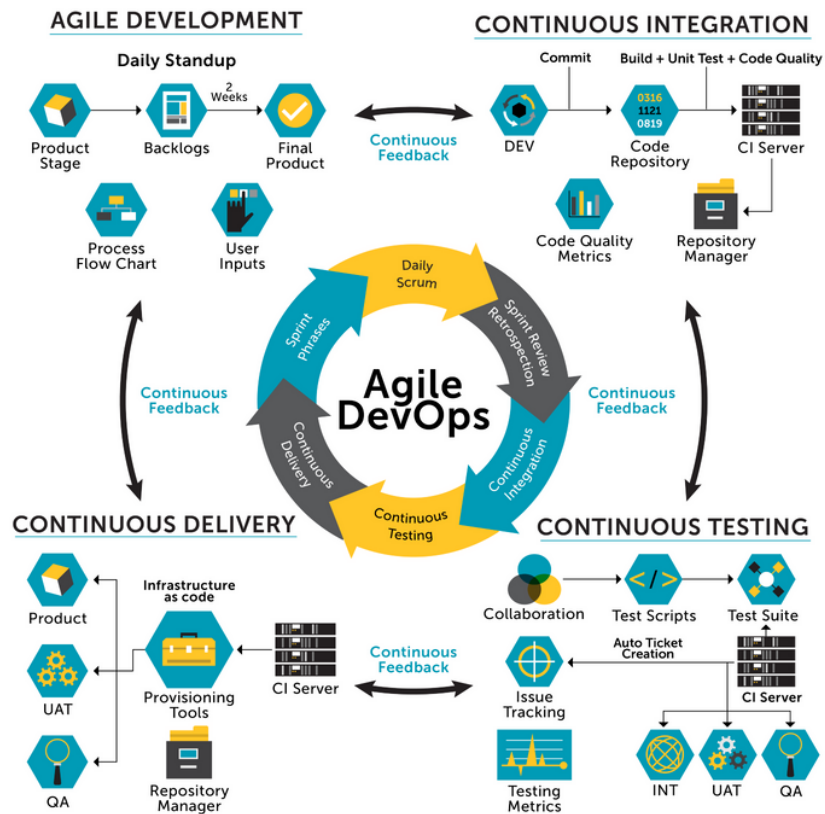
Overcame legacy system challenges, boosting hospitality market competitiveness.

### USE CASES

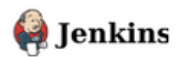
- End-to-end enterprise software engineering
- Development team support across the software lifecycle
- Comprehensive design, development, testing, and release services
- Broad architectural and technological expertise for modern solutions
- Proprietary Solution Accelerators to fast-track development



# DevOps



## TECH STACK





## DevOps

### SUCCESS STORIES



A healthcare software provider faced challenges in maintaining security and compliance with industry regulations, leading to potential data breaches.

- Integrated automated security testing into the CI/CD pipeline
- Implemented Infrastructure as Code for secure and compliant infrastructure
- Conducted regular security audits and vulnerability assessments

### USE CASES

- Continuous Integration (CI)
- Continuous Deployment (CD)
- Infrastructure as Code (IaC)
- Containerization and Orchestration
- Automated Testing
- Monitoring and Logging
- Collaborative Development and Communication
- Workflow Orchestration
- Serverless Computing
- Configuration, Release Management





# Infrastructure Support



## Azure

Cloud, Active Directory, Intune Management

AWS Cloud, Dockerization

## Operations

NetOps, SysOps, DevOps

## Infrastructure

On-Prem, Network/Security

## Management

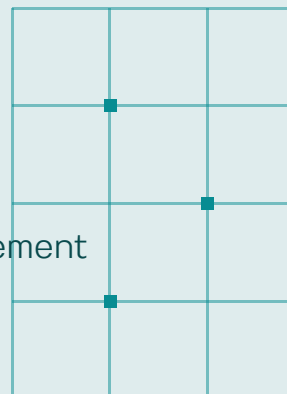
Incident, Problem, Change, Vulnerability/Patch, Asset, Disaster Recovery

## Services

Backup/Recovery, User Support/Helpdesk

### TECH STACK

- OS, Virtualization/ Containerization, Cloud Platforms
- Cloud, On-Prem, Hybrid
- Monitoring/Management, Vulnerability/Patch Management
- Backup/Disaster Recovery, Database Management
- Orchestration, CI/CD, Ticketing/Incident Management
- Authentication/Identity Management
- Performance Tuning, Compliance/Governance
- Knowledge Management





# Infrastructure Support

## SUCCESS STORIES



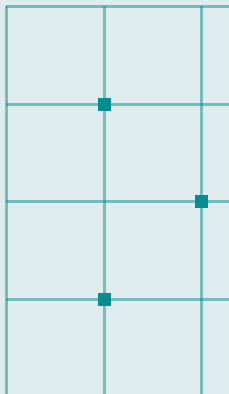
- Migrated from On-Prem AD to Azure AD
- Transitioned SSO from Okta to Azure
- Moved On-Prem storage to Azure Cloud
- Implemented Azure VPN for end-users
- Managed end-user devices with Azure Intune
- Conducted IT infrastructure vulnerability and patch management



- Implemented backup and disaster recovery
- Migrated AWS EC2 instances to Docker for optimization
- Established monitoring with Grafana
- Provided AWS and Azure infrastructure support

## USE CASES

- Cloud Services: Management, Migration
- Support: Troubleshooting, System Maintenance/Updates
- Security: Backup/Disaster Recovery, Network/Security Management (All Environments)
- Regulatory Requirements
- Performance Monitoring
- Support, Training
- Infrastructure Planning and Expansion (All Environments)
- Vendor Management





Product  
Testing



Web, Mobile & Thick  
Client Apps



Analytics &  
Warehousing



APIs &  
Webservices

TECH STACK



## Product Testing

### SUCCESS STORIES



Provided a US Healthcare Service Provider with Testing as a Service for automated regression analysis.

Ensured comprehensive automated testing for each release to identify and resolve issues promptly.



Delivered integrated Testing as a Service to a US Software Development firm.

Embedded continuous testing in the client's CI/CD pipeline for lifecycle consistency.

### USE CASES

- Regression Testing for Continuous Deployment
- Scalable Performance Testing for High-Traffic Events
- Security Testing for Data Protection and Compliance
- Cross-Browser Compatibility Testing
- Agile Testing in DevOps Pipeline



## Integrated DE Services



Abjayon orchestrates a digital revolution for your organization with an integrated suite of services, converging the following into a singular, potent offering.



Cloud Excellence  
with AWS



Data  
Modernization

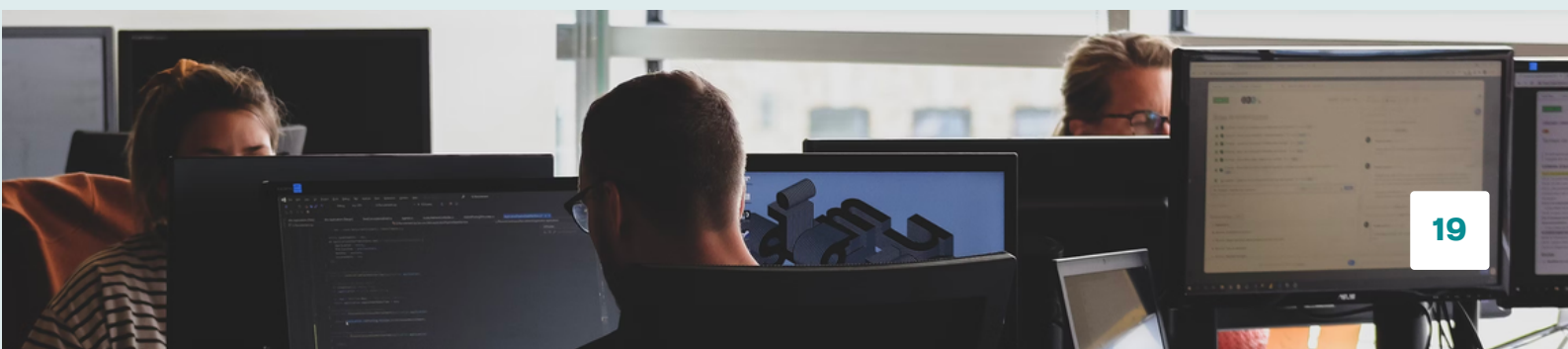


Infrastructure  
Transformation



Robust  
Cloud Security

Our Core Services transcend traditional boundaries, melding cloud-native data analytics with sophisticated AWS consulting. We architect solutions that not only speak to your current infrastructure but anticipate future technological landscapes, ensuring a seamless evolution of your enterprise systems.







# CURRENT PROJECTS



Ship Property  
Management Platform

**50+** Projects

**10+** Industries

**20+** Countries



Product Re-engineering  
& Maintenance



Networking Infrastructure



Digital Transformation  
and common framework  
for Clinical Device  
drivers



Product Re-engineering  
and cloud transformation



Customer to Meter  
Solution Implementation



Electric Network &  
Grid Modernization  
Solution  
Implementation



Patient Engagement  
Platform, Analytics and  
Managed Services



شركة المياه الوطنية  
National Water Company

Meter to Cash  
Solution



## RESOURCES

Solution Architects

Technical Designers

Software Engineers

QA Designers

QA Engineers

DevOps Architects

DevOps designers

DevOps Engineers

Data Scientists

Data Analysts

Data Engineers

## CERTIFICATIONS

AWS Certified DevOps Engineer

Azure DevOps Engineer Expert

Red Hat Certified Engineer

Certified DevOps Professional (CDOP)

UiPath Certified Advanced RPA Developer

Blue Prism Developer Certification

MS Azure Data Engineering Associate

Google Cloud Prof. Data Engineer

Oracle Cloud Infra Data Flow Associate

AWS Certified Machine Learning Engineer

Google Machine Learning Engineer

Azure AI Engineer Associate

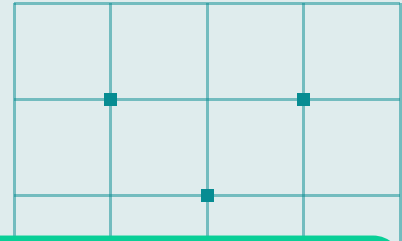
IBM Data Science Certification





# PRIMARY HEALTHCARE PROVIDER

## 01 SUCCESS STORY



Solution Discussion

Pricing Contracts

HIPAA SRA Audit

Carin

Vendor Evaluation

NetSuite

Solution Strategy

Security

DevOps

NetSuite

MS Active Directory

Cloud Deployment



### THE CLIENT

An innovative primary care provider that has been offering convenient, cost-effective health care services and operates a system of primary care practices



### THE GOAL

Management of their entire IT Infrastructure and Applications

### TECHNOLOGY, SERVICES

- DevOps setup, Maintenance
- Cloud Migration
- HIPAA Compliance, SRA Readiness Audit
- Vulnerability Testing

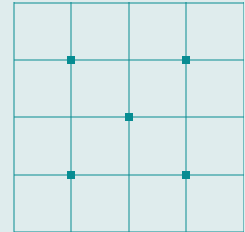
### APPLICATIONS

- Kronos Workforce Ready
- Oracle NetSuite
- Design & Build of Next Generation Patient Engagement Platform

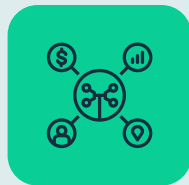


# A LARGE SHIPPING, CRUISE COMPANY

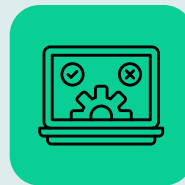
## 02 SUCCESS STORY



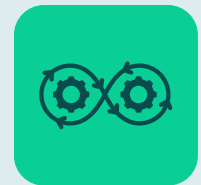
Technical  
Architecture



Engineering using  
Microservices  
architecture



Comprehensive  
QA



DevOps for  
Cloud Agnostic  
Solution



### THE CLIENT

Builds solutions for the Hospitality Industry to revolutionize how cruise companies handle their fleet operation, incorporating new cloud technologies and giving both shore- side and onboard teams a single platform to communicate as one voice.

### THE GOAL

Build a Ship Property Management System (SPMS) fully integrated with Point-of-Sales (POS)

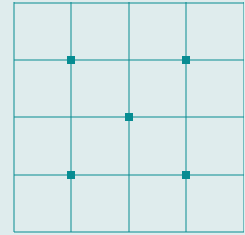
### SOLUTION

Abjayan is the Solution Development partner including developing Solution Architecture, Cloud Enablement, Progressive Web Application (A single application across platforms of web, iOS and Android), Solution Design and microservices architecture implementation to enable high scalability.



# CLINICAL RESEARCH & LIFE SCIENCES

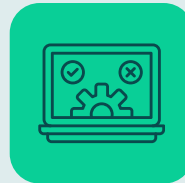
## 03 SUCCESS STORY



**Solution  
Delivery**



**Technical &  
Architecture  
Services**



**Comprehensive  
QA**



**Project  
Management**



### THE CLIENT

World leader in serving science, with annual revenue exceeding \$25 billion. Aims at making the digital transformation of the lab meaningful, relatable and accessible for scientists and researchers across all industries and fields of study.

### THE GOAL

- Digital transformation
- Test Automation
- Solution Architecture Services

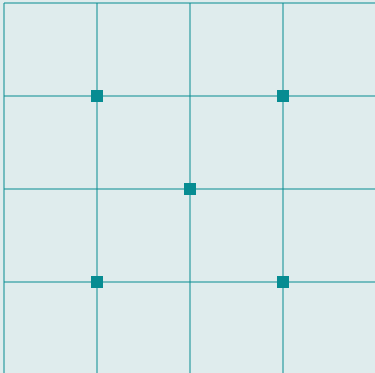
### SOLUTION

- Automation of the proteomics sample preparation instrument which has the following components
- Automation of the instrument control software for mass spectrometry
- Implemented Beacon Message broadcast interface for the liquid chromatographic system
- .NET framework upgrade, QA services, StencilJS, DDI interface implementation, UI interface enhancements





# INDUSTRIES



Clinical  
Research &  
Lifesciences

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Technology

---



Public  
Sector

---



Legal &  
Compliance

---



Hospitality

---



HR

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Energy &  
Water

---



Education

---



Healthcare

---



Consumer  
Business

---



# ENGAGEMENT MODELS

## Project based

- End-to-end ownership of project scope
- Fixed Bid, milestone based delivery

- Seamless integration with client processes
- Cost-effective models tailored to project needs
- Enhancing productivity through specialized skill sets

## POD Model

- Agile squads delivering on fixed scope chunk
- Milestone or Time & Material bases

## Extended Team / Resource Augmentation

- Long-term partnerships fostering deep knowledge exchange
- Flexible talent allocation to scale with project demands



# Ready for exponential growth?

# Let's Talk



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