xCognizant UK offers a wide range of **digital transformation and IT services** tailored to various industries. Here's a breakdown of what they provide:

### **💼 Core Services**

* **IT Consulting & Strategy**: Helping businesses modernize their technology infrastructure and align IT with business goals.
* **Application Development & Management**: Building and maintaining custom software solutions.
* **Systems Integration**: Ensuring seamless connectivity between different platforms and technologies.
* **Business Process Services**: Streamlining operations through automation and process optimization.
* **Digital Experience & Customer Engagement**: Enhancing user experiences across digital channels.

### **🏥 Industry-Specific Solutions**

* **Healthcare**: Digital health platforms, patient engagement tools, and data analytics.
* **Banking & Financial Services**: Core banking modernization, risk management, and digital payments.
* **Retail & Consumer Goods**: E-commerce platforms, supply chain optimization, and customer analytics.
* **Communications & Media**: Network transformation, content delivery, and customer experience solutions.
* **Manufacturing & Logistics**: Smart factory solutions, IoT integration, and predictive maintenance.

### **🚀 Emerging Technologies**

* **AI & Machine Learning**: Intelligent automation and data-driven insights.
* **Cloud Services**: Migration, management, and optimization of cloud environments.
* **IoT & Engineering R&D**: Especially strong in aerospace and defense through their Belcan partnership.

Here are some example case studies of Cognizant’s services:

### **🏎️ Aston Martin Aramco Cognizant Formula One® Team**

**Engagement Scope:**

* Multi-year strategic partnership starting in 2021
* Cognizant embedded engineers both on- and off-site
* Focus on digital transformation, fan engagement, and compliance with FIA cost cap regulations

**Requirements & Challenges:**

* Redesign car early due to FIA rule changes
* Hire and onboard 200+ new staff rapidly
* Normalize disparate data sets for financial reporting
* Reconnect with fans post-COVID via personalized digital experiences

**Tech Stack & Tools:**

* ERP system with custom data and intelligence layer
* Cloud infrastructure and app support
* NetApp, SentinelOne for data processing and cybersecurity
* AI/ML for particle imaging and aerodynamic modeling
* Real-time telemetry analysis (3TB of data per race)

**Outcomes:**

* Reduced FIA report prep time
* Boosted operational efficiency for design and performance
* Enhanced fan segmentation and engagement
* Supported design of $370M smart factory with IoT capabilities2

### **⚡ UK-Based Energy & Services Company (likely Centrica)**

**Engagement Scope:**

* Migration of internal and customer-facing apps to multi-cloud (Azure, AWS, Cognizant Cloud)
* End-to-end performance testing across 4 divisions and multiple geographies

**Requirements & Challenges:**

* Support for 10+ protocols: SAP (GUI, Fiori, HANA, ECC), Oracle, Java, web
* Consolidate testing infrastructure
* Ensure SLA compliance and visibility

**Tech Stack & Tools:**

* **LoadRunner Cloud** by OpenText
* 5,000 virtual users across 20+ cloud regions
* 1,000+ test scripts and 600+ test scenarios
* Elastic cloud-based load generators

**Outcomes:**

* £60,000 annual cost savings
* Scaled performance testing to 50 users per LG
* Improved productivity and SLA alignment5

### **🧠 BigDecisions Platform (used by TGS and others)**

**Engagement Scope:**

* Data modernization and analytics platform for enterprise-wide AI deployment
* Used in oil & gas, retail, pharma, and manufacturing

**Requirements & Challenges:**

* Migrate 200TB of tape-based seismic data
* Enable real-time geospatial insights for drilling decisions
* Integrate internal and external data sources

**Tech Stack & Modules:**

* AWS-based data lake
* Microsoft Cortana Intelligence, SQL Server with R Services, Power Platform
* Modules: Data Migrator, Data Lake, Enterprise Analytics, AI Workbench

**Outcomes:**

* Metadata extraction sped up by 75%
* Data delivery reduced from 5 days to 5 hours
* Time-to-market improved by 30–50%
* 50% cost savings over DIY implementations

### **🧰 Software Recommendations by Use Case**

| **Use Case** | **Recommended Tools** | **Pricing (Approx.)** | **Priority Factors** |
| --- | --- | --- | --- |
| **Cloud Infrastructure** | AWS, Azure, Google Cloud | Pay-as-you-go / Tiered | Scalability, compliance, global reach |
| **Data Analytics & BI** | Power BI, Tableau, Looker | $10–$70/user/month | Data volume, visualization needs, integrations |
| **CRM & Sales Automation** | Salesforce, HubSpot, Zoho CRM | $25–$300/user/month | Sales cycle complexity, team size |
| **Project Management** | Jira, Asana, Monday.com | $10–$30/user/month | Agile vs waterfall, collaboration needs |
| **DevOps & CI/CD** | GitHub Actions, Jenkins, GitLab | Free–$99/month | Deployment frequency, automation level |
| **ERP Systems** | SAP, Oracle NetSuite, Odoo | $99–$999+/month | Business size, modules needed, integration scope |
| **Customer Support** | Zendesk, Freshdesk, Intercom | $15–$99/user/month | Ticket volume, omnichannel support |
| **Marketing Automation** | Mailchimp, Marketo, ActiveCampaign | $10–$1,000+/month | Campaign scale, segmentation, analytics |
| **AI/ML Platforms** | Azure ML, AWS SageMaker, DataRobot | Usage-based | Model complexity, data pipelines, governance |
| **Cybersecurity** | SentinelOne, CrowdStrike, Okta | $8–$50+/endpoint/month | Endpoint count, compliance, threat landscape |

### **🔍 Prioritization Logic Based on Client Project Type**

| **Project Type** | **High-Priority Software Categories** | **Notes** |
| --- | --- | --- |
| **Startup MVP** | Cloud Infra, DevOps, PM tools | Focus on agility, cost-efficiency, and speed |
| **Enterprise Migration** | ERP, Cloud Infra, Cybersecurity | Emphasis on integration, compliance, and scalability |
| **Retail E-commerce** | CRM, Marketing Automation, Analytics | Customer engagement and conversion optimization |
| **Healthcare Platform** | Cybersecurity, AI/ML, Data Analytics | Regulatory compliance and predictive analytics |
| **Financial Services** | BI, ERP, Cybersecurity | Risk management, reporting, and secure transactions |
| **AI Product Development** | AI/ML, DevOps, Cloud Infra | Model lifecycle management and compute scalability |

| **Priority Level** | **Meaning** |
| --- | --- |
| **Must Have** | Essential to project success. Without this, the project fails. |
| **Should Have** | Important, but not essential. Can be delivered if time and budget allow. |
| **Could Have** | Nice to have, lower impact. Deliver only if quick wins are possible. |
| **Won’t Have (Now)** | Agreed to be out of scope for the current phase. Possibly future backlog. |

**Project Table**

The project table should include:

Project name, start date, end date, number of users, and the delivery model.

The delivery model will be categorized into On-prem, Cloud or Hybrid.

**Technology stack**

The Technology stack table should include the technology name, category ID and the status.

The category ID can be found in the category table.If the category is not listed in the table just return a new category name

The status will be either Existing, Planned or to be replaced.

**Category table**

The category table refers to the category of technology.

| **Category Name** |
| --- |
| CRM |
| BI |
| Cloud |

**Requirement table**

Each requirement should include a requirement type, a description and a priority level.

The requirement type should be whether the requirement is a functional one or a non-functional one.

**Client table**

The client table should include a unique client ID, client name (organisation), contact email, contact number, location and industry ID.

The industry ID will be referred to in a separate industry table which will also include the type of industry, e.g. bank, healthcare, retail, etc.

**Interaction**

Each interaction entry includes a source type that specifies whether the content originated from an Email, Meeting Transcript, Chat, or Document. If the

**Constraints**

The input should describe constraints that the client is facing.

The constraint should be labelled as a High, Medium or Low severity.

The constraint will have a Constraint Type ID which will link to the Constraint type table

**Constraint Type**

The constraint type refers to the constraints table. If the user has a new constraint that is not listed in the table just return a new constraint type name

| **Constraint Type Name** |
| --- |
| Timeframe |
| Budget |
| Compliance |
| Tech Limitations |
| Risk |
| Resources |

Cognizant works with a diverse range of industries Here are some of the key industries they serve:

| **Industry Name** |
| --- |
| Aerospace & Defense |
| Automotive |
| Banking |
| Communications, Media & Technology |
| Education |
| Healthcare |
| Information Services |
| Insurance |
| Manufacturing |
| Oil & Gas |
| Blue Economy |
| Capital Markets |
| Consumer Goods |
| Life Sciences |

Example of JSON output:

input = {

"Clients": {

"ClientName": "Acme Corp",

"ContactEmail": "contact@acme.com",

"ContactNumber": "+44 1234 567890",

"Location": "London, UK",

"IndustryID": "Financial Services"

},

"Project": {

"ProjectName": "Real-Time Sales Dashboard",

"StartDate": "2025-07-01",

"EndDate": "2025-12-01",

"NumUsers": 150,

"ProjectStatus": "Proposed",

"Budget": 80000,

"DeliveryModel": "Cloud"

},

"Requirements": [

{

"InteractionID": {

"Timestamp": "2025-06-26T10:00:00",

"SourceTypeID": "Email",

"RawText": "[Full transcript here]",

"ExtractedSummary": "Client wants cloud-based BI dashboard integrated with Salesforce."},

"Type": "Functional",

"Description": "Dashboards must display live sales data from Salesforce.",

"Status": "Confirmed",

"PriorityType": "Must",

"RequirementCategoryID": "Data & Analytics"

},

{

"InteractionID": {

"Timestamp": "2025-03-14T15:30:00",

"SourceTypeID": "Teams Call",

"RawText": "[Full transcript here]",

"ExtractedSummary": "Client is exploring edge computing infrastructure to optimize factory sensor analytics."},

"Type": "Non-functional",

"Description": "Business users should be able to edit visualisations without IT help.",

"Status": "In Review",

"PriorityType": "Should",

"RequirementCategoryID": "Data & Analytics"

}

],

"Constraints": [

{

"ConstraintTypeID": "Budget",

"Description": "Must stay within £80,000 allocated capital.",

"Severity": "High",

"InteractionID": {

"Timestamp": "2025-03-09T11:00:00",

"SourceTypeID": "In-person",

"RawText": "[Full transcript here]",

"ExtractedSummary": "Client proposes a smart ticketing system using QR codes and IoT-enabled kiosks."}

},

{

"ConstraintTypeID": "Timeframe",

"Description": "Project must be completed by end of Q4.",

"Severity": "Medium",

"InteractionID": {

"Timestamp": "2025-08-17T12:30:00",

"SourceTypeID": "Phone call",

"RawText": "[Full transcript here]",

"ExtractedSummary": "Client requires multilingual chatbot solution trained on existing Zendesk ticket archive."}

}

],

"ProjectTechnology": [

{

"TechName": "Salesforce",

"Status": "Existing",

"Category": "CRM"

},

{

"TechName": "Excel",

"Status": "Existing",

"Category": "BI"

},

{

"TechName": "Google Looker",

"Status": "Planned",

"Category": "BI"

},

{

"TechName": "Tableau",

"Status": "Planned",

"Category": "BI"

},

{

"TechName": "Power BI",

"Status": "To Be Replaced",

"Category": "BI"

}

]

}

**Data & Reporting** *E.g., dashboards, KPIs, analytics, real-time reports*

**Technology & System Integration** *E.g., CRM/ERP implementation, legacy upgrades, API connectivity*

**Security & Compliance** *E.g., GDPR, audit trails, access control, data protection*

**Process Automation** *E.g., workflow automation, approvals, repetitive task handling*

**Inventory & Operations Management** *E.g., inventory tracking, resource planning, order fulfillment*

**Financial & Budgeting** *E.g., cost control, ROI tracking, budget management*

**Customer & Sales Enablement** *E.g., CRM features, lead management, order tracking*

**User Access & Interface** *E.g., role-based access, mobile interfaces, multilingual support*

**AI & Intelligent Automation** *E.g., predictive analytics, chatbots, sentiment analysis*

**Strategic & Business Goals** *E.g., market expansion, digital transformation, ESG tracking*

https://colab.research.google.com/drive/1U078WHOy16EnNQzRbmXN\_WiC8Mr1p0oX?usp=sharing