



**BHADALE GROUP OF COMPANIES
- IT AND REAL ESTATE**



April 19 2018

Azure Digital Services Catalogue-detailed

Bhadale IT Developers Pvt. Ltd CIN: TBD | Bhadale Real Estate Developers Pvt. Ltd CIN: TBD

Plot No. 52, Hindwadi, Belgaum, KA, India | Mobile: 9741040195 | Website: TBD

Bhadale Group of Companies

Bhadale Group of Companies consists of Bhadale IT Developers Pvt. Ltd and Bhadale Real Estate Developers Pvt. Ltd.

1. **Bhadale IT Developers Pvt. Ltd** is an IT and Computer Engineering company

This company provides consultation in areas of cutting edge technologies, research outsourcing, and software consultation related to data center and related engineering practices

2. **Bhadale Real Estate Developers Pvt. Ltd** is a Real estate company

This company provides development of commercial, residential and farm based developments. It manages the renting and lease of the real estate properties

Bhadale Group of Companies has aggressive programs in place to serve the niche market. Below are the programs and service offerings for **IT Division**

Bhadale IT Developers Pvt. Ltd Programs and Services**IT Division programs – specific to Microsoft Azure technologies**

- 1 Cloud Architecture- Azure Cloud
- 2 AI – Azure AI and ML
- 3 Digital – Azure Digital Enterprise platforms
- 4 Automation - Azure automation
- 5 R&D services- Azure research areas
- 6 Engineering services – Azure engineering board reviews, audit, diagrams, approvals
- 7 Data center services – Azure datacenter setup
- 8 Outsourcing – Outsource your Azure jobs like remote help, tutor

There are various services offered under each program, details are described below

IT Division program related services**Cloud Architecture – Microsoft Azure specific**

- Cloud Enterprise Architecture – Azure Enterprise platform / frameworks, & processes
- Cloud Business Architecture – Azure business tools, & frameworks
- Cloud Information / Website data Architecture – Azure webapps/ mobile apps, Bing maps, & Sharepoint website design
- Cloud Solution Architecture – Azure Solutions as per your needs
- Data center Virtualization and Cloud services (IaaS) – Hyper-V, Containers, Desktop/ Network, & Storage virtualizations
- Cloud Technical Architecture – Project specific – Best practices , design patterns based on MSDN
- Cloud ERP Solutions (SaaS, PaaS) – Office365, CRM, ERP packages , & integration
- Cloud Strategy and Transformation – Workshops, roadmaps and strategy
- Cloud Systems Integration and consolidation – Salesforce, Google, SAP, MS CRM , & LOB systems
- Cloud Project Management – Agile, TFS, Scrum templates, & PMP based techniques

- Cloud Pre sales support - Assist in design of material for presales deals, bid documents, & client meetings
- Business Needs (RFI/RFQ/RFP assistance)- Documents with Azure and alliances specific details for inventory, pricing, RoI, & Management
- Cloud Quality Initiatives – SLA, OLA, performance, cost optimizations, Corporate standards, ethics, & values
- Cloud Business Analysis – Analysis as per BABOK and MSFT/ partner tools for BA
- Cloud Infrastructure Planning – hardware , network, storage , backup (IaaS, PaaS)- Datacenter IT systems design, provisioning, commissioning and planning for future growth
- Cloud business portfolio assessment services (workshops) – Assess, enrich and support your portfolio of services as related to Azure and allied technologies

AI Azure

- Artificial intelligence and advanced machine learning - Azure AI Compute, Data science, Azure ML , Cognitive intelligence, AI Infra, AI tools and AI Services platform , & Deep Learning
- Intelligent applications, Intelligent things - Azure AI for IoT , & DataLakes
- Conversational systems – BOT Framework
- Mesh app and service architecture – Azure Service bus, Azure Service fabric, Micro-services, Smart grid, Gateways, & Enterprise Integration
- Adaptive security architecture- Deep Learning and predictive analysis, forecasting using tools, & algos.

Digital –Azure

- Virtual reality and augmented reality: VR, AR and Mixed reality(MR) from Microsoft; Hololens for MR; VR headset, VR ready PCs, Unity SDK, & VR SDK
- Digital twins – Azure IoT , MSFT Cognitive platform, Big compute, Analytics, Mixed reality & related SDK
- Blockchains and distributed ledgers – Azure hosting, SQL/No SQL DB, Security, Bitcoin mining, serverless computing, BizTalk services, Business partner exchange, Integration with Accounting ERPs, I/O remittances, claims settlements, & AI based fraud detections.
- Digital technology platforms – Azure private/ public, hybrid clouds, Solutions, Cloud best practices, Ready to use base VM and Containers as per domain, business and industry needs

Automation - Azure

- Robotic Process Automation – Blue Prism intelligent automation powered by Azure AI
- IoT - Azure SaaS for IoT(IoT Central), IoT Edge, IoT Services, Windows 10 IoT, & SDK for Raspberry PI
- Manufacturing robots - IoT solutions for Manufacturing robots
- BPO call center robots – Runbooks based VM solutions for BPO domain for backoffice automation, AI based chatbots for CRM, RPA for form filling, taking orders, notifications, & help desk automation etc
- Chatbots –AI based chat bots with SDK, interfaces to CRM, Cloud, industry / domain specific interfacing with expert systems to offer clients better results, good search, filtering and rollups of results, & use of hadoop for unstructured content like voice
- Remote workers - Azure IoT hub, IoT Edge integration, wireless communications, control using mixed reality to accomplish the remote task, AI and ML to correct any errors and fatigue related omissions.
- Hazardous jobs robots(Mine bombs, nuclear waste, underwater, space etc) - Uses same technologies as remote worker, however will have rugged parts, fit for jobs in odd places like nuclear plants, fire, underwater, collapsed buildings and where humans dare to risk their life.

R&D services – Azure based

- PHD mentor, buddy - for thesis support projects using Azure technology
- BPO - Outsourced work in areas of research areas related to IT and Computer Engineering - mainly for offloading research work related to azure for cost effective valued added- returns

Engineering services (Only Engg) – for Azure solutions

- Engineering services for Data centers – Datacenter layouts based on business and Azure needs, Server engineering, cable layouts, rack provisioning, power cables, routing boards, patch panes, fans, motherboard systems engineering, failover mechanisms, fire, plant safety, fire exits, & backup power / UPS
- Engineering services for IT Departments - Private cloud installation needs of premise, IT equipments, hardware-software interfaces, admin consoles, emergency management, IT failure management, quality certification, hardware level security, OS hardening, network firewalls, & premise management
- Engineering architectures, drawings, road ways, town house planning, parking, safety, outdoor maintenance, lighting etc - Datacenter external environment , landscaping, parking, restrooms, food court, licenses, audits, & approvals
- All other aspects of engineering: Civil, electrical, water and sewage, safety and mechanical motors, pumps, refrigeration, cooling – Civil bylaws, Electrical quality and proper metrics, levels, HVAC, waste water management, safety, workers laws, factory bylaws, corporate laws, fencing, & legality support

Data center services (Engg + IT) – for Azure

- Data center Engineering services – Same as above
- Data Center IT Services - IT software licenses for Azure OS, Windows, devices, SDK / tools, laptops, & server boxes
- Data center Security services – as per Microsoft recommendations, SDLC, threats, AI for preventive measures
- Data Center QA services- Certifications for datacenter like ISO, Green, & Energy saver
- Datacenter Cloud services – Provisioning of tenants for internal / external service offerings, SLA, OLA, metering, white labeling , custom domains, SSL, & cross- datacenter connectivity
- Datacenter compliances services- mainly related to audit, certification, & maturity management
- Data center based business solutions – assisting clients get loans, offer great service and obtain RoI in less time using various management and business techniques

Outsourcing

- Insourcing – Helping clients in in-sourcing of off-shored Azure operations and business units
- Outsourcing – help clients to reduce internal load and offloading to low cost centers
- Near sourcing – helps clients to gain max profit and benefits of other types of resourcing
- Cloud sourcing – Remote work done
- BPO services – using help desk, RPA, & Chatbot based automation
- IT specific services - Any client specific IT services as per request
- Engineering specific services – Offshored engineering works like drawing, layout planning, & security
- Training specific services – being part of your partner team, help clients to offer our services to their local clients

IT Division programs – Digital Services – Azure



Image Courtesy (The web)

CATALOG OF DIGITAL SERVICES OFFERED - extension of generic cloud offerings adapted to Azure

Service No	Service Name	Services offered
1	Virtual reality and augmented reality for Microsoft Azure	<p>VR, AR and Mixed reality(MR) from Microsoft; Hololens for MR; VR headset, VR ready PCs, Unity SDK, & VR SDK</p> <p>Leveraging Simplygon, to create 3D assets once – at full visual fidelity – and automatically optimize them to render smoothly on any platform – within minutes, saving valuable time and money using BabylonJS.</p> <p>Live virtual streaming using Azure Media services using 360 degree visuals and image stitching using kits like Vahana VR.</p> <p>Our VR services includes design of VR/AR applications, kits , software modules for capturing the first class data for the consumer (wearable, display screen, mobiles), transforming to suitable aspect, tagging, and projecting to the target device and managing its storage and recycling based on user needs. Leveraging partner and Azure marketplace tools to develop unique solutions as per your needs. We have initial set of use cases for you: VR/AR use cases in Travel experience, Training for hazardous games/ combat, Education (solving complex maths and engineering formulas and their usage)</p> <p>Augmented reality to troubleshoot industrial and manufacturing issues, proactive maintenance, location based service for ease of travel through known/unknown terrains; extended vision and aids for soldiers advanced warnings and solutions to retaliate and escape hostile areas, mini- 3D rooms for monitor, control and command centers for managing remote, offshore projects instead of enterprise PM</p>

		<p>Mixed reality app design using Unity SDK for gesture, gaze, motion detection APIs. Design of custom virtual entities for Holographic and Immersive effects for VR/ AR and MR headsets, HoloLens.</p> <p>We enhance the processes with real / virtual images, documents, production designs, similar issues with historical records and helping troubleshoot faults, issues, bugs that can take several days to resolve</p>
2	Digital twins/ device twins for Microsoft Azure	<p>Azure IoT, MSFT Cognitive platform, Big compute, Analytics, Mixed reality & related SDK</p> <p>Azure Process Digital Twin uses mixed reality, artificial intelligence, and high-performance computing to optimize not only equipment but the entire manufacturing process. These are developed based on the available platforms using our Common framework/ services, for vertical integration, horizontal integration, and end-to-end engineering optimization</p> <p>What we offer is the technology to enable advanced scenarios in key areas of the manufacturing process – at the machine level, the factory level, and the supply chain level. We help you in getting the right IoT, interfaces, and probes in your legacy physical product and digitize the modules and components of your product. Backed by the vast reports and troubleshooting tips from OEM like GE, Honeywell and domains like electronics, avionics, railways, military, we can bring all that to your premise to ensure your Digital twin is capable of having all the details, maintenance and resolutions of your product.</p> <p>Once you have the digital twin repository we help you to make that data sensible using cognitive tools, ML algorithms and make them visible onto a display for your analytics and insights. This will help you create simulations and run tests and get feedbacks. We have completed similar work for an aircraft testing rig.</p> <p>We leverage Industry 4.0, NIST cloud standards and adhere to data privacy and IP protection and cover entire life process lifecycle to monitor and diagnose the real problem in the physical world.</p>
3	Blockchains and distributed ledgers for Microsoft Azure	<p>Azure hosting, SQL/No SQL DB, Security, Bitcoin mining, serverless computing, BizTalk services, Business partner exchange, Integration with Accounting ERPs, I/O remittances, claims settlements, & AI based fraud detections</p> <p>Analysis of business needs and choosing right tools, partner kits and IDE that meet your business asset design and development.</p> <p>Design of Block Chain as a Service (BaaS) using Azure digital platform based on Ethereum and tools based on Solidity. Implementing the core data tier, development tasks in the following areas:</p> <ul style="list-style-type: none"> • Building, configuring and deploying data-tier blockchain nodes. • Writing smart contracts that live in blockchain.

		<ul style="list-style-type: none"> • Developing supporting data providers (oracles) in the application tier. • Developing the rest of the application-tier services. <p>Development of Visual Studio / Solidity assets like Ethereum Virtual Machine (EVM). (contract-oriented programming language) used for most smart contract development using browser-based Remix Solidity IDE.</p> <p>Design using Microsoft's Cryptlet Fabric based solutions, proof of concepts for various project types and domains where block chain adds value to the business. Leverage on Microsoft's Coco frameworks</p> <p>We offer value add using Block chains like substantial decrease of intermediaries, fraud and access to real-time information without manipulations. Our services include getting the landscape for block chain, roadmaps and transformation of your current legacy systems, accounting systems, networking and inventories to be enabled to integrate and work with this new technology.</p> <p>We offer you on your green and brown field projects and have expertise in related tools (IoT, Peer-to-Peer network, Security, and partners. Our domains are BFSI, FMCG, Transport and Logistics. We modernize, consolidate, integrate legacy apps to modern digital platforms that is AI aware and can reduce risks (by 50%) and increase productivity (40%) for a better enterprise</p>
4	Digital technology platforms for Microsoft Azure	<p>Azure private/ public, hybrid clouds, Cloud best practices, Ready to use base VM and Containers as per domain, business and industry needs, B2B, B2C, partner data platforms,</p> <p>Analysis of your modernization plan, legacy assets and drafting digital roadmaps, milestones and key deliverables. Basic blue prints for major domains like BFSI, Telecom, FMCG, Energy & Utilities, Health care, Life science are available as templates, custom VMs with taxonomy and GUI required for most critical functions.</p> <p>Design of various large scale integration scenarios required for smart building, smart city, connected vehicles, real time security, real time crime detection, smart factory, smart office, smart home and smart agriculture</p> <p>We offer design of digitally connected systems that serve residents , Govt. officers, Employers, business partners, clients, markets, transactions and all that is needed to onboard human needs from a paper based system to digital platform. We offer landscapes, roadmaps, digital assets, digital devices/ equipments, data storage/ retrieval, data privacy and presentation of the digital world in a phased manner using various aggregators, transformers, bigdata handlers, data miners and anomaly detectors and analysis of large datasets, deltas and consumption/ subscription models for authorized users and authorities.</p> <p>We implement the digital datacenters that host the cloud- scale servers, security and trained staff/ licensed engineers to handle and manage the assets, devops and lifecycles</p>

		<p>Our services include assisting you to transform your existing platform to newer Azure digital platform that support the AI enabled apps and services. We offer IoT Platforms, Adaptive security, Support cloud based onboarding, integration, API design and support for AI based BI and enterprise analytics.</p> <p>We offer proofs of concepts for the AI based apps at PaaS and SaaS layers. We design interfaces and modules for the IT assets like hardware, software, network, virtual planes, control planes and logical layers with industry based meta- models, ontology and taxonomy as per industrial domains.</p>
--	--	--

For more information, please contact us.

Bhadale IT Developers Pvt. Ltd

Business person: Mohan Hulbatti-Business Owner, 0831-4217175, Email: mohanhulbatti@gmail.com

Technical person: Vijay Mohire- CTO, 9741040195; Email: vijaymohire@gmail.com