



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



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Enterprise Cognitive services Catalogue

Bhadale IT Developers Pvt. Ltd | Bhadale Real Estate Developers Pvt. Ltd (registration due)

Plot No. 52, Hindwadi, Belgaum, KA, India | Mobile: +91- 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 Infrastructure for IT Datacenter and allied sectors. It manages the engineering design, landscaping, civil architecture, presently serving internal projects.

Bhadale Group of Companies has aggressive programs in place to serve the niche market.

Bhadale IT Developers Pvt. Ltd Programs and Services**IT Division programs**

- 1 Cloud Architecture
- 2 AI
- 3 Digital
- 4 Automation
- 5 R&D services
- 6 Engineering services
- 7 Mentoring Services
- 8 Data center services
- 9 Outsourcing

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

IT Division program related services**Cloud Architecture**

- Cloud Enterprise Architecture
- Cloud Business Architecture
- Cloud Information / Website data Architecture
- Cloud Solution Architecture
- Data center Virtualization and Cloud services (IaaS)
- Cloud Technical Architecture – Project specific
- Cloud ERP Solutions (SaaS, PaaS)
- Cloud Strategy and Transformation
- Cloud Systems Integration and consolidation
- Cloud Project Management
- Cloud Pre sales support
- Business Needs (RFI/RFQ/RFP assistance)
- Cloud Quality Initiatives

- Cloud Business Analysis
- Cloud Infrastructure Planning – hardware , network, storage , backup (IaaS, PaaS)
- Cloud business portfolio assessment services (workshops)

AI

- Artificial intelligence and advanced machine learning
- Intelligent applications, Intelligent things
- Conversational systems
- Mesh app and service architecture
- Adaptive security architecture

Digital

- Virtual reality and augmented reality: Brief capability, deliverables and service offering
- Digital twins
- Blockchains and distributed ledgers
- Digital technology platforms

Automation

- Robotic Process Automation
- IoT
- Manufacturing robots
- BPO call center robots
- Chatbots
- Remote workers
- Hazardous jobs robots(Mine bombs, nuclear waste, underwater, space etc)

R&D services

- PHD mentor, buddy
- BPO - Outsourced work in areas of research areas related to IT and Computer Engineering

Engineering services (Only Engg)

- Engineering services for Data centers
- Engineering services for IT Departments
- Engineering architectures, drawings, road ways, town house planning, parking, safety, outdoor maintenance, lighting etc
- All other aspects of engineering: Civil, electrical, water and sewage, safety and mechanical motors, pumps, refrigeration, cooling

Mentoring Services

- IT Mentoring
- Engineering Mentoring
- Business Mentoring
- Mentoring for special categories based on age, and disabled
- Mentoring for special professionals like Military and Govt officials under Govt Programs

Data center services (Engg + IT)

- Data center Engineering services
- Data Center IT Services
- Data center Security services
- Data Center QA services
- Datacenter Cloud services
- Datacenter compliances services
- Data center based business solutions

Outsourcing

- Insourcing
- Outsourcing
- Near sourcing
- Cloud sourcing
- BPO services
- IT specific services
- Engineering specific services
- Training specific services

Service details for Bhadale IT Developers Pvt. Ltd

IT Division programs – Cognitive enterprise

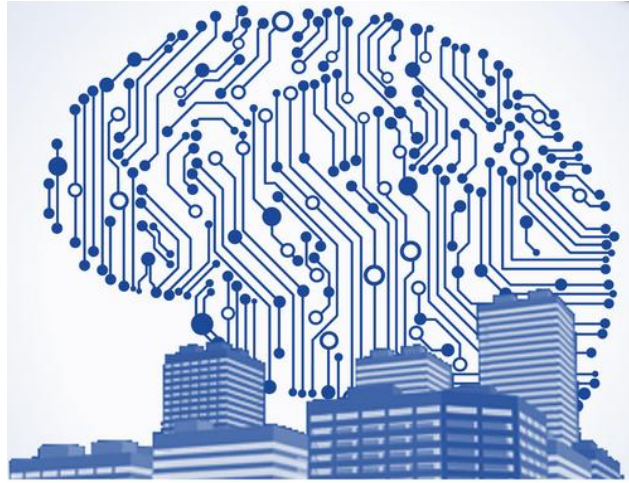


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We have a large set of offerings; few key ones are mentioned below

No	Name	Key component features / Use cases
1	Design of Cognitive Enterprise Automation - Pilot	<p>We offer end to end design of the system core which consists of the following key disciplines:</p> <ul style="list-style-type: none"> • Design business strategy for expected end results • Design of cognitive roles, features, functions that enable better HMI interactions • Technology stack identification, analysis and recommendation • Data collection, digital transformation, and normalization • Data Analytics of structured/unstructured data, & knowledge representations • User experience that offers human like experience of internal and external interactions, validated learning from knowledge representations • Design of required system functions for cognitive features like Adaptive, Interactive, Iterative/stateful, & contextual • Cognitive process automation that uses BPM, RPA, DSS, AI/ML, & Block chain • Design of Minimum viable products (MVP) for prototyping • Proof-of-concept (PoC) project in support of the hypothesis • Design of Digital Strategy in adopting the PoC with / without modifications • Quality assurance testing to ensure impact for change • Integrate PoC under Change Management control process as a pilot
2	Design of cognitive technology apps, IT assets, frameworks	<p>Design of required project assets related to</p> <ul style="list-style-type: none"> • Design of frameworks on cognitive architecture classes like Symbolic, emergent and hybrid that are further classified based on memory and learning types

		<ul style="list-style-type: none"> • Design of sub systems, modules for knowledge representation, control and domain knowledge, cognitive abstraction layers, control layers, learning module, feedback/ evaluation modules, reasoning and inference engines that mimic brain features, functions and operations • Design of modules for Experiential cognition and/or Reflective cognition • Design of modules, frameworks that are based on required architectures like SOAR(State, Operator And Result), Integrated Cognitive-neuroscience Architectures for Understanding Sensemaking(ICARUS), NARS(Non-Axiomatic Reasoning System),NOMAD (Neurally Organized Mobile Adaptive Device), LIDA(The Learning Intelligent Distribution Agent) and many more • BPM system design that sits on top of back-end ERP or CRM systems and orchestrates a seamless process across these applications • RPA processes for Data entry, cleansing and transfer or through direct machine-machine interfaces. • The automatic selection / approval is either accomplished through machine-learning-based algorithms, decision trees or a scoring scheme • AI based rules engine, fuzzy logic that enable better non human based filtering / mapping of records
3	Design of Enterprise wide Cognition – Production	<p>Post successful launch of pilot project we offer to repeat same success in various departments, divisions, verticals with following key steps</p> <ul style="list-style-type: none"> • Design of required business use case along with users and stakeholders • Plan and Design of automation process for required user role enhancements / making redundant • Analyze the internal existing data, process details and any performance issues • Analyze the level of transformation, change required for expected returns • Repeat the MVP and PoC steps • Integrate test for QA • Turnover after UAT, DevOps, AIOps upgrades • Offer further extensions and upgrades as required
4	Design of cognitive maturity modules	<p>Based on industry standards and the four layer concept we offer piece-wise design and development of following assets</p> <ul style="list-style-type: none"> • Level 0 - Unintelligent Automation: Rule based system modules, screen scrapping tasks, & related storage, retrieval of information, human like jobs like typing, mouse clicks, swipes and other ordinary jobs related to data entry, and recording • Level 1- Language & context aware: NLP modules for OCR, speech related tasks, Virtual assistant / chat bots design, compilation of medium level jobs related to handling unstructured content for knowing the context, • Level 2-ntelligent process awareness: Develop modules for identifying process flows, intelligent process management, risk management, exception management, dynamic management, self awareness for missing data, and automatic documentation • Level 3- Autonomous process optimization: Design modules for self-learning and self-diagnosis, self-suggest and self-repair, governance of all process related

		<p>tasks, automatic orchestration of process entities like bots, workflows, roles, software etc</p> <p>Apart from above we offer solutions for Descriptive, Predictive, & Prescriptive class type assets that you can plug and play into your enterprise assets.</p>
5	Integration with external assets	<p>We offer integration of various IT, engineering and network assets that allow great control of your enterprise under fully manual, semi-automated and fully automated schemes</p> <ul style="list-style-type: none"> • IoT modules, Cloud platforms, Robots, ERP, CRM, Vertical tools, engineering assets, tools and infrastructures • Web and mobile based integration, API, Gateways, Low power devices, server instrumentation, various visual boards, room gadgets, CEO tools, CFO charts and many more IT assets • Software package for NLP, learning algorithms, vision algorithms, data dictionary, taxonomy, meta data , HPC, AI based hardware processors, GPU, FPGA etc • Engineering lab test up for testing and calibration of engineering devices that need proper network planning, optimization and error corrections • Integration with 5G networks, mini data centers, edge computing, cloud platforms and LAN, WAN modules • Design of required software packages that enable better visibility of the cognitive activities, required access control and security features

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For more details, contact below:

Contact**Bhadale IT Developers Pvt. Ltd**

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