

Dec 28 2020

Technology Ecosystem for Products Catalogue

Bhadale IT Pvt. Ltd (registration due)

Canada & India

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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 (laaS)
- 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)

ΑI

- 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 specials 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 Pvt. Ltd

Our Technology Ecosystem for Products



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We have a large set of tools and solutions; few are mentioned below with details tabulated

Domain	Our Product offer	Our Products ecosystem/ features	
AGRI	1. Farmer's climate aid	Weather forecast – Spark, Hive, climate, rainfall, snowfall, GIS datasets,	
PRODUCTS	2. Precision	Jupyter notebook, Google maps, historical time series forecasting	
	agriculture/satellite	algorithms using ML, Docker, and Kubernetics.	
	farming aids		
	3. Agricultural tube farming	Precision agriculture (PA), satellite farming or site specific crop	
	<u>aids</u>	management (SSCM), decision support system, on observing, measuring	
	4. Smart Agriculture farm	and responding to inter and intra-field variability in crops –	
	<u>safety</u>	GIS, spatial datasets, LEO satellite data feeds, Drone data feeds, images,	
	5. Smart Agriculture crop	and image classifications algorithms based on texture, mapping to issues,	
	<u>safety</u>	normality, dryness, wet, under-water, contamination levels etc.	
	6. Smart Agriculture	Co-relate similar, seasonal, historical data using CRAN statistical packages	
	processing	using R. Spark, HBase, Jupyter notebooks, Python, Linux, Neural NW	
	7. Smart Agriculture	based decision support system, batch –processing using data pipelines,	
	<u>storage</u>	nano, bio-sensors for various levels of monitoring, reporting and roll-up	
		status, Analyzing satellite feeds to detect early warnings for pests, bugs,	
		swarms approaching crops, snow, hails, temperature variations that	
		enable farmers responses. Rodent and flies management by way of	
		switching on sensors, buzzers to chase away using mini robots, rule based	
		and fuzzy logic systems, LAMP, MEAN stack based portals hosted on	
		Azure or AWS platforms	
		Use of computer vision based robotic arms, conveyor belts , image	
		sensors, real time classification of varieties of grains, at various	
		configurable setting based on ISO, standards, sorting of wide range of raw	
		crop deliverables and using farmer- friendly GUI settings to sort and auto	
		value the market value. These all use various datasets, cost metrics,	
		market value, expert systems inputs, that enable better return to farmer	
		Stock Inventory management software along with real time analysis and	
		Stock inventory management software along with real time analysis and	

degradation analysis, lab reports that enable better supply chain stock movements using MS Project, AI based Scheduling software using Python, R, robot-arms and integrated vision cameras Grain Storage system bio-sensors, nano-sensors collect various ecological , environment, ambient that enable better visibility and alerting farmers to sprinkle required remedy, all run in real time and batch- modes driven by centralized community servers/ cloud that offer value to supply chain Expert robot systems that will support basic farming tasks like tilling, sowing, harvesting, sorting fertilizer spraying, fruit picking all make better productivity and allow farmers to do more of planning and profit making sales activities MAS systems using Java, Prolog/ Synergy, under Linux help realization, O-8. AI based Multi-agent ΑI **PRODUCTS** system package MaSE, JADE and autonomous intelligent agents to design agent societies 9. Concordance software that use genetic algorithms to better the agent society. This has lots of for text discovery and uses like in Digital Twin for new product design, Simulation of war like analysis situations and games that help in better reinforced learning and adoption of virtual roles/ avatars that can help real world entities and humans. Realization of Use cases like Natural disaster management for proactive evacuation using mobile apps, automated mobile instructions (ambient and local aware services) using Android, iOS and other popular OS. Use of Autonomous Learning Agents for Decentralized Data and Information Network(ALADDIN), Industrial Sensors, Decision support systems using graphics. AI for Telecom 5G, private spectrums, AM/FM and other usable bands, using AI / ML algorithms and real time analysis, we offer load balancing, security features to prevent intrusion of live programs and a sense of comfort that operations will resume even with a disruption, to achieve 99.9% uptime. Smart grid functions, with edge computing, field based analysis and reporting and lot more that integrates electrical, electronics and software interfaces using NIST, ISO, and IEEE standards Text analysis packages using R based CRAN, NLP packages, Open NLP, and Natural Language Toolkit (NLTK) for unstructured big data analysis, mining and use of HBase, Hive for large volume storage in TB, enables better insights of the text semantics, meta-data and sentiments **AUTOMOBIL** 10. Manufacturing Robotic Kofax, AutomationAnywhere, HelpSystems, RAGE, IBM PowerAl process automation system **E PRODUCTS** 11. Electric car using a solid Robotic systems from FANUC, KUKA, ABB, GE state hybrid battery Overlay virtual systems, ROS, Motherboards, Raspberry pie boards, explainable AI tools for inference engine based decision system/ controller Photovoltaic cells, supercapacitors, nano-wired battery kits with micro batteries for nanosystems/ embedded systems, and battery for healthgadgets / long running remote systems

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AVIATION PRODUCTS	12. Aircraft delay analysis using big data with R 13. Engineering Test rig 14. Avionics units software test modules 15. Smart flight safety 16. Smart passenger travel 17. Smart fleet maintenance 18. Smart digital twins 19. Smart ticketing, cargo tracking, delivery	R packages for delay analysis, multi facet charts, MIL STD 1553B, ADC, sensors, LRU unit processing, testing and performance w.r.t. delays in flights, SoC FPGA, wired \ wireless protocols, Boards from DDC, Apollo, 4GL libraries, 2d/3d graphics libraries, static / dynamic time spectrum analyzers, relays, safety trip switches, mobile app, POST, Cloud, edge computing, avionic parameters analysis using big data, spark, ML libraries, reporting and analysis using Tableau, MIS reports, virtual reality, simulations/ trainings based on proper / improper use, misuse, abuse of controls, safe flying training test environments using mixed, hybrid reality and automated corrections plan based on a pilots digital twin that captures the personality, traits and human preferences. Simulated space travel, using historical data about the facts of the universe, risks and how they can be removed for an actual flight that travel to far off planets In-flight experience for passenger who plan to tour the flight exterior, flying area using location aware, context aware apps, screens, virtual guides. Using big-data, satellite datasets, local view of the travel point is
		generated for virtual experience, for connecting flights, cabs, hotels, and transit information offered in mobile with no internet
DATA CENTER- COMPUTING PRODUCTS	20. Smart Nano computing system 21. Smart Quantum Cryptography 22. Wireless Nanosensor Networks (WNSN) 23. Edge, fog computing	DNA bio-material, nanotubes, gate circuits, computing platform using biosensor interfaces, energy efficient computing. Health science, genome packages, R and Python packages for analysis and quality testing Azure Edge, AWS lambda, Azure IoT using 5G. Quantum kits using IBM, Google and AWS
DEFENSE PRODUCTS	24. Intelligent Army suite system 25. Force fields systems 26. Stealth technology kit	Nano-technology, Intelligent fabric, Integrated virtual views, 3d view using mixed reality, various guides/cues for helmets, watch, inbuilt health monitor, gadgets, body temperature / movement generation of power (emergency), bio-sensors for poisonous gas detection, in body computing, location tracker, safe homing guidance even when suite is removed, auto locator alerts to base stations, GPS, GIS, satellite datasets, Spark, HBase, real time and batch processing, intelligence data decryption, in body memory erasure tools with biometric approvals Stealth technology carbon nano-tubes, nano-computing, user programmable interference amount generation for deflection, software, hardware interfaces
EDUCATION PRODUCTS	27. Predicting Grant Applications using Spark's machine learning 28. RPN Calculator(using C) 29. Simple Math Calculator (using Java and JavaScript) 30.Hangman game (using Java) 31. Graph nodes	Simple educational aids that help students get the real inside working of tools like calculators that show them how the equations / theorems are translated to solve real world problems. Pieces of code, equations and results, along with errors are shown using interactive apps, software written by us. We use variety of languages, visualization and graphics (2d/3d) that help students learn easily and do interns happily. We use C, C++, Java, Pythton,4G libraries, R, virtual reality, mixed reality and make PC based learning fun that enables better memorization, quicker learning. Our syllabus is based on popular adaptive learning techniques unique for

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	reachability analysis software (using DFS, BFS) 32.Dynamic Tree node management (using BST and node traversals) 33. Adaptive learning kit 34.Emerging business learning systems	each learner. We also blend the learning with business, engineering and medical syllabus that enables students can start practicing after they graduate with good hands-on. We use mixed reality, NLP techniques to help learn better
ENERGY PRODUCTS	35. Smart metering system 36. Digital Energy meter 37. Smart grid system 38. Nano-wired battery 39. Hybrid energy system interfaces and massive storage systems 40. Micro-batteries charged by everything from buildings to our bodies	Smart grid software using Azure IoT, AWS, Cisco NW, edge services backed by Low power protocols, ZigBee, Grid sensors, energy converters using digital techniques, DSP, filters to suppress surges, accidental trips etc Inbuilt power failure analysis, prediction using big data, Azure HDInsight, integration of operational planes, IoT planes data planes and management planes using dual redundant failover clusters using Dockers and Kubernetes Neural NW based Inference engines that enable better edge based IoT devices monitoring and feedback control mechanism Failover Backup grid to support main grid failure with interconnects that switch over in seconds and based on OLA, Suitable data center type availability of 99% is possible using our unique architecture, big data analysis and smart control Suitable standards from NIST, Smart grid alliance, Green standards all make our products industrial grade
ENGINEERIN G PRODUCTS	41. <u>Digital TV</u>	We have base design for digital TV using comb filter, DSP processing using fourier transforms. We plan to add more features that enable use of latest technologies like virtual reality, NLP based interactivity, android TV, intelligent DTH, world channels integration, introducing online learning from home for all courses and research work wherever possible. Use of satellite based phone services, FM radio and many more spectrum use using 5G, WiFi. We plan to offer TV in various form factors that meet needs of individual like on a mobile app for various age groups, professions and genders. Integrated with radio, Internet, IoT, Virtual Office, the way TV is used will change as many convergence and similar use to a laptop will ensure TV will live long
DRESS PRODUCTS	42. Intelligent dress material	This project leverages on exoskeleton as base wear along with cloth/fabric that acts as a base for all types of gadgets. We customize the base gadgets and tailor them to match unique needs of individuals based on various factors. We have 10 models that will be mapped to requirements that enable better working condition, ambient and threat aversion including nearby abnormal human behaviors. We use IoT, AI/ML algorithms, NLP, sentiment analysis, adaptive learning and nano, biosensors to make the material suitable for industrial, commercial and home use

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GAMING &	43. Shape generator for	Using Computer Graphics, we plan to use 3D, 4D, images, sounds and
ENTERTAINM	Games using Computer	newer modes of gaming experience using SnapDragon, Intel Graphics
ENT	<u>Graphics</u>	accelerators, GPU, and an adaptive learning virtual assistant that reads
PRODUCTS		your moves and offers recommended moves
GOVERNMEN	44. Multi agent system for	MAS systems using Java, Prolog/ Synergy, under Linux help realization, O-
T PRODUCTS	natural disaster	MaSE, JADE and autonomous intelligent agents to design agent societies
	<u>management</u>	that use genetic algorithms to better the agent society. This has lots of
	45.Smart City cyber	uses like in Digital Twin for new product design, Simulation of war like
	physical systems	situations and games that help in better reinforced learning and adoption
		of virtual roles/ avatars that can help real world entities and humans.
		,
		Realization of Use cases like Natural disaster management for proactive
		evacuation using mobile apps, automated mobile instructions (ambient
		and local aware services) using Android, iOS and other popular OS. Use of
		Autonomous Learning Agents for Decentralized Data and Information
		Network(ALADDIN), Industrial Sensors, Decision support systems using
		graphics. We adopt this to Govt frameworks, datasets, metrology labs,
		National agencies and generate advance reports using Tableau, Power BI,
		MIS charts and control room design
		Based on European Research Cluster standards and frameworks, we plan
		to develop cyber-physical systems that span across all major offering by
		city council. We offer flexible, unique solutions for each city while
		retaining the base model and offering localized solutions using IoT, Edge,
		Cloud, home gadgets, mobiles, laptops and interfaces to public services
GREEN	46. <u>Clean Tech systems</u>	Using Remap, IRENA global energy modeling framework, we plan to
ENVIRONME		integrate conventional energies with newer energies using software,
NT		hardware, battery storage, smart grid, hybrid energy sources, nuclear,
PRODUCTS		hydro energy, energy banks, that enable sustainable growth for at least
		one decade
		We plan to modernize existing power plant that will enable lesser
		pollution and better RoI, using better energy source overlays or new
		designs for the plants. We plan to even modernize the conventional
		energy systems that will use lesser power and can easily sustain for a
		week instead of a daily charge
HEALTHCARE	47. Intelligent Health	Wireless Body Area network (WBAN), Intelligent fabrics, Bluetooth,
/	monitoring systems	6LoWPAN, personal operating systems with less footprint like in android,
LIFESCIENCE	48. Smart Drug delivery	iOS, AWS Cloud, Inference engine for sensor based edge intelligence
PRODUCTS	49. Smart nano coatings	decision making, lambda functions, bio-sensors, oxy meters, pulse meters,
	50. Smart anti-microbial	mini-cardiac gadgets, mini-ECG, IOT systems
	technologies	Deep Learning based body scan, extraction of features, diagnosis of
	51. Smart medical batteries	abnormality using CNN, slices, 2d, 3d reports for easier surgery.
	52. Intelligent EHR services	
	53. Intelligent Doctor,	Nano scale drug delivery patch/ cloth, nano sensor for delivery metrics,
	physician services	part targeted delivery system using 2d/3d measures to pinpoint the
	54. <u>Intelligent solutions for</u>	cancer and deliver right amount instead of brute force delivery, use of
	dental services	Al/ML to segment and pinpoint the abnormal area
		All ME to segment and philipoint the abhormal area
	55. <u>Intelligent paramedic</u>	

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Technology Ed	cosystem for Products catalog	ue Bhadale Group of Companies
	services 56. Smart Diagnosis systems	Nano-devices planted in intelligent fabric allows in better diagnosis within few hours without humans using AI/ expert system and ready to use normal charts/ graphs. Nano, bio-sensors that work on the signatures of the molecules, pollutants, viruses and bacteria, will enable better analysis using AI/ML with an inference engine to assist pathologists to diagnose precisely Low power micro batteries with nano-coating that help 99% efficiency in transfer of electrons and rechargeable using inside-body temperatures and other natural elements Patient health records processing management and long term storage using big-data, NoSQL document databases like CouchDB
HI TECH PRODUCTS	57. Voice driven Al technology system 58. Intelligent Digital twin system	AWS AI, Lambda, Translate, Kinesis, Comprehend, API gateway all driven in AWS / Java Runtime engine enables the app to be embedded or used in a standalone mode Oracle IoT Digital Twin is being leveraged to build big-data systems along with Spark, Hive and NoSQL concepts. Hadoop/YARN used to wherever possible
HOSPITALITY PRODUCTS	59. Intelligent Hotel reservation management system 60. MAS based TAGA trading agent system 61. Intelligent food quality testing system 62. Intelligent Traveler's bots	Hotel and Hospitality system will be driven by hybrid cloud platform with near real time processing using Hadoop based transaction/ non-transactional events with guaranteed delivery using SMS, app alerts, push notifications. Al/ML used to recommend suitable offers, discounts and early bird / holiday plans to premium clients. Data sets from tourism, hotels, national offices and related agencies are used to feed continuously. GUI to be JavaScript, Node.js., React, MEAN stack with cloud based security and scalability FIPS based multi-agent system for online trading and deals management using Agent society based human behavior simulation and inference to design various options for deals using Java, Python, Kafka, Akka, Eclipse, MongoDB, CouchDB and lambda functions to trigger events and offline processing Food quality testing for viruses, Covid, poison, lead, heavy metals, silica based on software signature mapping and classification based on various user selected features, Nano and bio-sensors used with nanomeasurements being scaled for physical real size using Al algorithms Travel virtual guide using location, context aware apps integrated with tour data, history and real data to offer a great user experience even without no internet with offline ready to use data, use of GIS, satellite, local data sets, lambda, bot framework
HR PRODUCTS	63. <u>Resume shortlister Al</u> agent system	Use of Text mining algorithms, NLP libraries for unstructured data, Spark, EMR, ranking and priority algorithms, improved ATS pipeline with various user friendly filters that allow narrowing from a large pool of open

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		resume to a limited setoff 100 for personal review. Use of recommendation for top fitting resources with unique skills
IT-BT PRODUCTS	64. Intelligent routing & resolution system for a Call Center	NLP based algorithms for real time analysis and routing using Spark, Kafka streams that offer transactional guarantee
LAW PRODUCTS	65. <u>Intelligent Lawyer</u> <u>system</u>	An adaptable Neural network with feeds from expert systems that allows rule based and fuzzy based decision to be possible for best judgment. Aprior algorithm based knowledge offers better results. May be Markov chains will help
MANUFACTU RING PRODUCTS	66. Intelligent Industry 4.0 robotic system 67. Collaborative Robot Cell safety system	Systems from FANUAC, ABB, GE, and KUKA will be used to tailor made GUI that enable better data integration with Azure and AWS clouds and Robot OS.
	68. Smart manufacturing robots 69. Smart manufacturing virtual assistant 70. Smart manufacturing inventory intelligence 71. Smart manufacturing	Use of real-time data feeds from moving parts with possible deviations using look up statistic charts enable quicker decisions using various NIST standards, Type A/B/C standards for collaborative systems Use of various packages, frameworks from Rockwell, ISA, and integration with enterprise packages like SAP, Oracle that enable better insights and
	plant automation 72. Smart manufacturing scheduling 73. Smart manufacturing process automation 74. Smart manufacturing quality intelligence 75. Smart manufacturing product ideas 76. Smart manufacturing niche industry solutions	better supply chain movement from one station to another
RESEARCH PRODUCTS	77. Experimental claytronics 78. Molecular electronics digital technology 79. Programmable matter 80. Using The Internet For Hardware Downloads — Not Just Software 81. Nanobots brain plug-ins for the cloud 82. Gene therapy for deafness 83. Next Tech or NT aids, integration and systems 84. Early Clustered	To Do
	Regularly Interspaced Short	

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Technology Ecosystem for Products catalogu

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	Palindromic Repeats	
	(CRISPR) gene editing	
	technology	
RETAIL	85. Smart retail SCM	Virtual shopping aids, real time retain inventory updates, theft detections
PRODUCTS	86. Smart retail inventory	at checkout, fraud detection all make it possible using AI/ML, NLP, tag
	and anti-theft system	reader, remote vision, auto checkouts, without any personal aid will
	87. Smart retail shopping	enable better shopping experience
	recommender	endate sector shopping experience
	88. Smart retail warranty	Recommendation display on the shop gadgets to the shoppers allows
	89. Smart retail safety	them to shop without remembering their needs, use of personal data,
	90. Smart retail logistics	history using big data and personal recommendation systems, algorithms
	91. Smart FMCG	listory using big data and personal recommendation systems, algorithms
		For owners, bottor insights of sales, rolled up sharts on day, wook, guarter
	92. <u>Smart retail innovations</u>	For owners, better insights of sales, rolled up charts on day, week, quarter
		reports enable better tax compliance and audits
SECURITY	93. Anti-theft detectors for	To Do
PRODUCTS	business online details safe	
	94. Personal security kit for	
	personal-family safety and	
	safety of assets	
	95. Personal defender kit	
	for early warning and self	
	defense	
	96. Nanotech sensors for	
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	preventing individual and	
	preventing individual and group terrorism	
	1.	
TELECOM	1.	Using DeepCog concept we design 5G capacity forecasting, use of
TELECOM PRODUCTS	group terrorism 97. Intelligent Telecom	Using DeepCog concept we design 5G capacity forecasting, use of virtualized network, cloud burst, DWDM, OFDM, and orchestrations using
	group terrorism 97. Intelligent Telecom resource management	virtualized network, cloud burst, DWDM, OFDM, and orchestrations using
	group terrorism 97. Intelligent Telecom resource management system	virtualized network, cloud burst, DWDM, OFDM, and orchestrations using API, GUI, data logger big data analysis, spectrum usage monitors and
	group terrorism 97. Intelligent Telecom resource management system 98. Mobile Ambient	virtualized network, cloud burst, DWDM, OFDM, and orchestrations using API, GUI, data logger big data analysis, spectrum usage monitors and handling of millions of dynamic secure key handshakes across million IoT
	group terrorism 97. Intelligent Telecom resource management system 98. Mobile Ambient intelligent system	virtualized network, cloud burst, DWDM, OFDM, and orchestrations using API, GUI, data logger big data analysis, spectrum usage monitors and handling of millions of dynamic secure key handshakes across million IoT devices and use of Azure IoT, edge analysis, will help better usage,
	group terrorism 97. Intelligent Telecom resource management system 98. Mobile Ambient intelligent system 99. 5G planning, migration	virtualized network, cloud burst, DWDM, OFDM, and orchestrations using API, GUI, data logger big data analysis, spectrum usage monitors and handling of millions of dynamic secure key handshakes across million IoT
	group terrorism 97. Intelligent Telecom resource management system 98. Mobile Ambient intelligent system 99. 5G planning, migration services	virtualized network, cloud burst, DWDM, OFDM, and orchestrations using API, GUI, data logger big data analysis, spectrum usage monitors and handling of millions of dynamic secure key handshakes across million IoT devices and use of Azure IoT, edge analysis, will help better usage, reduced theft and avoiding outages with availability of 99.9%
	group terrorism 97. Intelligent Telecom resource management system 98. Mobile Ambient intelligent system 99. 5G planning, migration services 100. Network planning	virtualized network, cloud burst, DWDM, OFDM, and orchestrations using API, GUI, data logger big data analysis, spectrum usage monitors and handling of millions of dynamic secure key handshakes across million IoT devices and use of Azure IoT, edge analysis, will help better usage, reduced theft and avoiding outages with availability of 99.9% Suitable apps and websites will be developed using real time lambda, IoT,
	group terrorism 97. Intelligent Telecom resource management system 98. Mobile Ambient intelligent system 99. 5G planning, migration services 100. Network planning 101. Network	virtualized network, cloud burst, DWDM, OFDM, and orchestrations using API, GUI, data logger big data analysis, spectrum usage monitors and handling of millions of dynamic secure key handshakes across million IoT devices and use of Azure IoT, edge analysis, will help better usage, reduced theft and avoiding outages with availability of 99.9%
	group terrorism 97. Intelligent Telecom resource management system 98. Mobile Ambient intelligent system 99. 5G planning, migration services 100. Network planning 101. Network infrastructure	virtualized network, cloud burst, DWDM, OFDM, and orchestrations using API, GUI, data logger big data analysis, spectrum usage monitors and handling of millions of dynamic secure key handshakes across million IoT devices and use of Azure IoT, edge analysis, will help better usage, reduced theft and avoiding outages with availability of 99.9% Suitable apps and websites will be developed using real time lambda, IoT,
	group terrorism 97. Intelligent Telecom resource management system 98. Mobile Ambient intelligent system 99. 5G planning, migration services 100. Network planning 101. Network infrastructure implementation	virtualized network, cloud burst, DWDM, OFDM, and orchestrations using API, GUI, data logger big data analysis, spectrum usage monitors and handling of millions of dynamic secure key handshakes across million IoT devices and use of Azure IoT, edge analysis, will help better usage, reduced theft and avoiding outages with availability of 99.9% Suitable apps and websites will be developed using real time lambda, IoT,
	group terrorism 97. Intelligent Telecom resource management system 98. Mobile Ambient intelligent system 99. 5G planning, migration services 100. Network planning 101. Network infrastructure implementation 102. Telco software design	virtualized network, cloud burst, DWDM, OFDM, and orchestrations using API, GUI, data logger big data analysis, spectrum usage monitors and handling of millions of dynamic secure key handshakes across million IoT devices and use of Azure IoT, edge analysis, will help better usage, reduced theft and avoiding outages with availability of 99.9% Suitable apps and websites will be developed using real time lambda, IoT,
	group terrorism 97. Intelligent Telecom resource management system 98. Mobile Ambient intelligent system 99. 5G planning, migration services 100. Network planning 101. Network infrastructure implementation 102. Telco software design 103. Cloud integration	virtualized network, cloud burst, DWDM, OFDM, and orchestrations using API, GUI, data logger big data analysis, spectrum usage monitors and handling of millions of dynamic secure key handshakes across million IoT devices and use of Azure IoT, edge analysis, will help better usage, reduced theft and avoiding outages with availability of 99.9% Suitable apps and websites will be developed using real time lambda, IoT,
	group terrorism 97. Intelligent Telecom resource management system 98. Mobile Ambient intelligent system 99. 5G planning, migration services 100. Network planning 101. Network infrastructure implementation 102. Telco software design 103. Cloud integration services	virtualized network, cloud burst, DWDM, OFDM, and orchestrations using API, GUI, data logger big data analysis, spectrum usage monitors and handling of millions of dynamic secure key handshakes across million IoT devices and use of Azure IoT, edge analysis, will help better usage, reduced theft and avoiding outages with availability of 99.9% Suitable apps and websites will be developed using real time lambda, IoT,
	group terrorism 97. Intelligent Telecom resource management system 98. Mobile Ambient intelligent system 99. 5G planning, migration services 100. Network planning 101. Network infrastructure implementation 102. Telco software design 103. Cloud integration services 104. Smart Telco NW	virtualized network, cloud burst, DWDM, OFDM, and orchestrations using API, GUI, data logger big data analysis, spectrum usage monitors and handling of millions of dynamic secure key handshakes across million IoT devices and use of Azure IoT, edge analysis, will help better usage, reduced theft and avoiding outages with availability of 99.9% Suitable apps and websites will be developed using real time lambda, IoT,
	group terrorism 97. Intelligent Telecom resource management system 98. Mobile Ambient intelligent system 99. 5G planning, migration services 100. Network planning 101. Network infrastructure implementation 102. Telco software design 103. Cloud integration services 104. Smart Telco NW 105. Smart Telco virtual	virtualized network, cloud burst, DWDM, OFDM, and orchestrations using API, GUI, data logger big data analysis, spectrum usage monitors and handling of millions of dynamic secure key handshakes across million IoT devices and use of Azure IoT, edge analysis, will help better usage, reduced theft and avoiding outages with availability of 99.9% Suitable apps and websites will be developed using real time lambda, IoT,
	group terrorism 97. Intelligent Telecom resource management system 98. Mobile Ambient intelligent system 99. 5G planning, migration services 100. Network planning 101. Network infrastructure implementation 102. Telco software design 103. Cloud integration services 104. Smart Telco NW 105. Smart Telco virtual assistants	virtualized network, cloud burst, DWDM, OFDM, and orchestrations using API, GUI, data logger big data analysis, spectrum usage monitors and handling of millions of dynamic secure key handshakes across million IoT devices and use of Azure IoT, edge analysis, will help better usage, reduced theft and avoiding outages with availability of 99.9% Suitable apps and websites will be developed using real time lambda, IoT,
	group terrorism 97. Intelligent Telecom resource management system 98. Mobile Ambient intelligent system 99. 5G planning, migration services 100. Network planning 101. Network infrastructure implementation 102. Telco software design 103. Cloud integration services 104. Smart Telco NW 105. Smart Telco virtual assistants 106. Smart Telco Inventory	virtualized network, cloud burst, DWDM, OFDM, and orchestrations using API, GUI, data logger big data analysis, spectrum usage monitors and handling of millions of dynamic secure key handshakes across million IoT devices and use of Azure IoT, edge analysis, will help better usage, reduced theft and avoiding outages with availability of 99.9% Suitable apps and websites will be developed using real time lambda, IoT,
	group terrorism 97. Intelligent Telecom resource management system 98. Mobile Ambient intelligent system 99. 5G planning, migration services 100. Network planning 101. Network infrastructure implementation 102. Telco software design 103. Cloud integration services 104. Smart Telco NW 105. Smart Telco virtual assistants 106. Smart Telco Inventory 107. Smart Telco	virtualized network, cloud burst, DWDM, OFDM, and orchestrations using API, GUI, data logger big data analysis, spectrum usage monitors and handling of millions of dynamic secure key handshakes across million IoT devices and use of Azure IoT, edge analysis, will help better usage, reduced theft and avoiding outages with availability of 99.9% Suitable apps and websites will be developed using real time lambda, IoT,
	group terrorism 97. Intelligent Telecom resource management system 98. Mobile Ambient intelligent system 99. 5G planning, migration services 100. Network planning 101. Network infrastructure implementation 102. Telco software design 103. Cloud integration services 104. Smart Telco NW 105. Smart Telco virtual assistants 106. Smart Telco Inventory 107. Smart Telco predictive maintenance	virtualized network, cloud burst, DWDM, OFDM, and orchestrations using API, GUI, data logger big data analysis, spectrum usage monitors and handling of millions of dynamic secure key handshakes across million IoT devices and use of Azure IoT, edge analysis, will help better usage, reduced theft and avoiding outages with availability of 99.9% Suitable apps and websites will be developed using real time lambda, IoT,
	group terrorism 97. Intelligent Telecom resource management system 98. Mobile Ambient intelligent system 99. 5G planning, migration services 100. Network planning 101. Network infrastructure implementation 102. Telco software design 103. Cloud integration services 104. Smart Telco NW 105. Smart Telco virtual assistants 106. Smart Telco Inventory 107. Smart Telco predictive maintenance 108. Smart Telco process	virtualized network, cloud burst, DWDM, OFDM, and orchestrations using API, GUI, data logger big data analysis, spectrum usage monitors and handling of millions of dynamic secure key handshakes across million IoT devices and use of Azure IoT, edge analysis, will help better usage, reduced theft and avoiding outages with availability of 99.9% Suitable apps and websites will be developed using real time lambda, IoT,
	group terrorism 97. Intelligent Telecom resource management system 98. Mobile Ambient intelligent system 99. 5G planning, migration services 100. Network planning 101. Network infrastructure implementation 102. Telco software design 103. Cloud integration services 104. Smart Telco NW 105. Smart Telco virtual assistants 106. Smart Telco Inventory 107. Smart Telco predictive maintenance 108. Smart Telco process automation	virtualized network, cloud burst, DWDM, OFDM, and orchestrations using API, GUI, data logger big data analysis, spectrum usage monitors and handling of millions of dynamic secure key handshakes across million IoT devices and use of Azure IoT, edge analysis, will help better usage, reduced theft and avoiding outages with availability of 99.9% Suitable apps and websites will be developed using real time lambda, IoT,
	group terrorism 97. Intelligent Telecom resource management system 98. Mobile Ambient intelligent system 99. 5G planning, migration services 100. Network planning 101. Network infrastructure implementation 102. Telco software design 103. Cloud integration services 104. Smart Telco NW 105. Smart Telco virtual assistants 106. Smart Telco Inventory 107. Smart Telco predictive maintenance 108. Smart Telco process	virtualized network, cloud burst, DWDM, OFDM, and orchestrations using API, GUI, data logger big data analysis, spectrum usage monitors and handling of millions of dynamic secure key handshakes across million IoT devices and use of Azure IoT, edge analysis, will help better usage, reduced theft and avoiding outages with availability of 99.9% Suitable apps and websites will be developed using real time lambda, IoT,

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Transport	110. <u>Intelligent Telemetry</u>	Wireless PAN, WAN, LoRA, OFDM, LEO satellites, GPS and blind
products	system for multi-modal	navigation systems will help us to build a long term regional and national
	vehicles	infra that will help to scale population, and transactions, using Java, API,
	111. Intelligent Transport	decentralized, edge systems with intelligent inter connects and cloud
	and logistics tracking	based integration
	112. Cognitive Travel	
	<u>system</u>	
	113. Cognitive Driver's aid	
	114. Intelligent traffic	
	Management system	
	115. Intelligent Drones'	
	Order dispatch system	
BANKING	116. Bit coin and crypto	FPGA based Bitcoins mining software, crypto wallets software, smart
PRODUCTS	<u>currencies</u>	contract, ledgers all make our solution mature and use of post quantum
	117. Anti-quantum hackers	algorithms makes it less prone to quantum hacking
	<u>aids</u>	
CO-	118. Solution Café -	
WORKING	personalized co-working	A collaborative cloud platform for virtual office, home office and physical
PRODUCTS	space	office experience using gadgets, mini-conference systems, offline and live
		operations management, shared desk, personal and official setup using
		Cisco, MS Office, Azure, virtual desk tools

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