



The present

COGNITIVE CHALLENGES

Talent Scarcity | Readiness Gap | Solution Value Gap

are

**PARALYSING COMPANIES
BLOCKING AI POTENTIAL.**

1

POTENTIAL. CHALLENGES.

Talent
Scarcity

AI is a scarce resource based on demand and supply forces

300,000 AI engineers | 5,400 AI publishing experts | 22,000 PhDs | 4.5x jobs growth from 2013

Readiness
Gap

Businesses do not consider themselves ready to adopt AI

Challenges: Data, Talent, Technology, Management | Black Box Non-progressive Solutions | <32% feel AI-ready

Solution
Value Gap

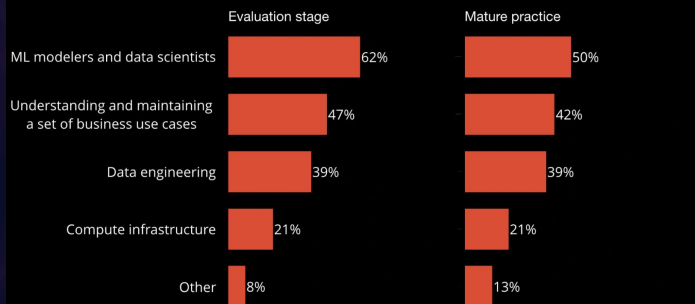
Businesses struggle to innovate and enhance with AI

AI as Support | No Translational Skills (tech-culture-business-market), Risk Management, Integration, Method

+\$15.7T Global GDP by 2030
+\$89B AI Revenue by 2030
+\$14 T Profit by 2025

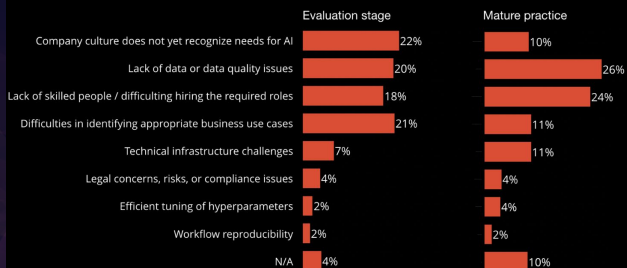
- AI Exceeds Human Performance at Specialised Tasks
- High, Easy AI Improvement of Core Industry Functions
- Business Enhancement or Innovation
- +66% performance boost using AI over existing techniques

Where are the biggest skills gaps within your organization, related to machine learning and AI adoption? (select all that apply)



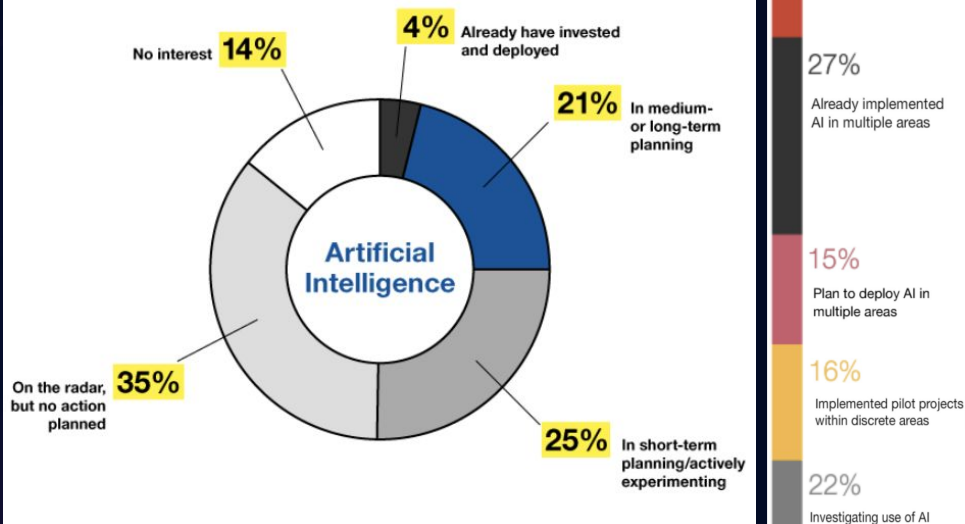
Percentage of respondents (at a given stage of AI adoption) who selected given option

What is the main bottleneck holding back further AI adoption? (select one)



Percentage of respondents (at a given stage of AI adoption) who selected given option

Deployment of AI Initiatives in 2018



gartner.com/SmarterWithGartner

Source: Gartner
© 2017 Gartner, Inc. and/or its affiliates. All rights reserved. Gartner is a registered trademark of Gartner, Inc. or its affiliates.
For more information, email info@gartner.com or visit gartner.com. F11_662_349970

Gartner.

Source: PwC 2019 AI Predictions
Base: 623
Q: How far along is your organization with AI? Select one.

20%

Plan to deploy AI enterprise-wide

27%

Already implemented AI in multiple areas

15%

Plan to deploy AI in multiple areas

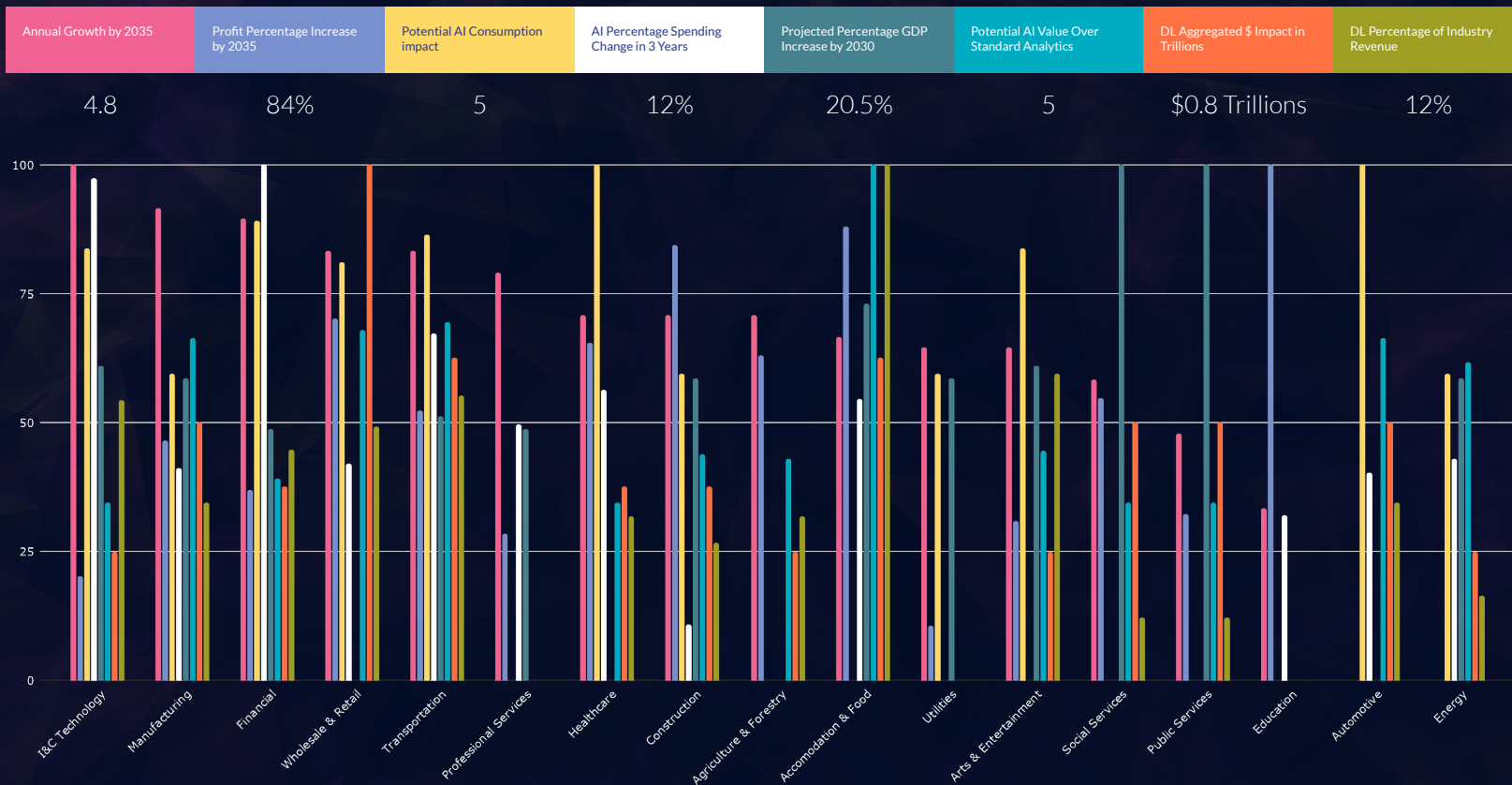
16%

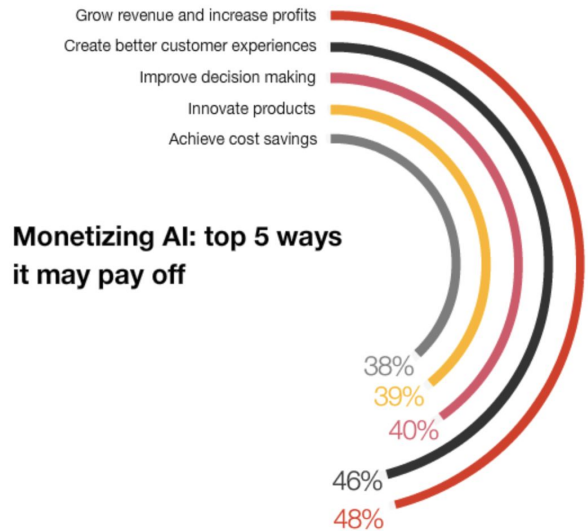
Implemented pilot projects within discrete areas

22%

Investigating use of AI

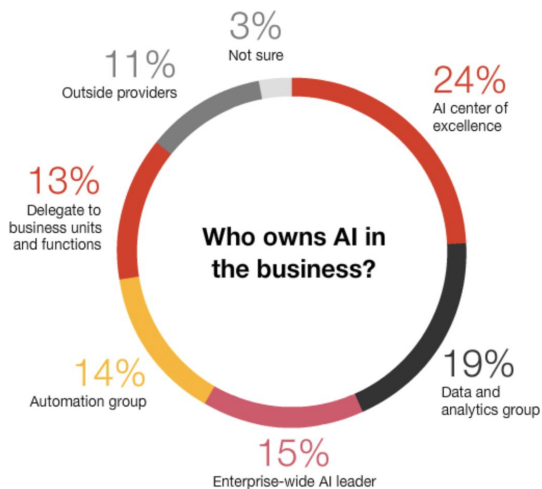
THE AI POTENTIAL BY INDUSTRY, WITH LEGEND AND MAX VALUE.





Source: PwC 2019 AI Predictions
Base: 1,001

Q: What value do you expect from your AI investments? Top-three ranking



Source: PwC 2019 AI Predictions
Base: 1,001

Q: How will you implement and govern AI in 2019?

NExTT FRAMEWORK

Artificial Intelligence Trends in 2019



Top five AI challenges for 2019



Ensuring that AI systems are trustworthy
37%



Managing the convergence of AI with other technologies
36%



Moving AI initiatives from pilot to production
29%



Training current employees to work with AI
36%



Measuring AI's return on investment
31%

Source: PwC 2019 AI Predictions
Base: 1,001

Q: Which AI data-related issues will be the top priorities for your organization in 2019?

- Application: Computer vision
- Application: Predictive intelligence
- Application: Natural language processing/synthesis
- Infrastructure
- Architecture

CBINSIGHTS WHAT'S NEXT IN AI? Artificial Intelligence Trends, 2019

We leverage

ARTIFICIAL INTELLIGENCE via

Business Expertise | Cognitive Systems
Hardware | Software | Domain Expertise

towards

**TECHNOLOGY INNOVATION
AND MARKET LEADERSHIP.**

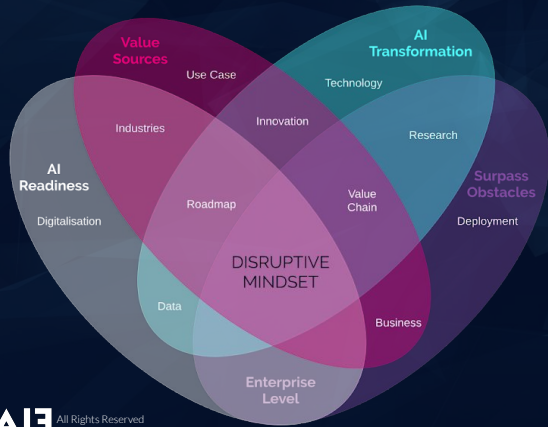
2

OUR APPROACH SUMMARY .

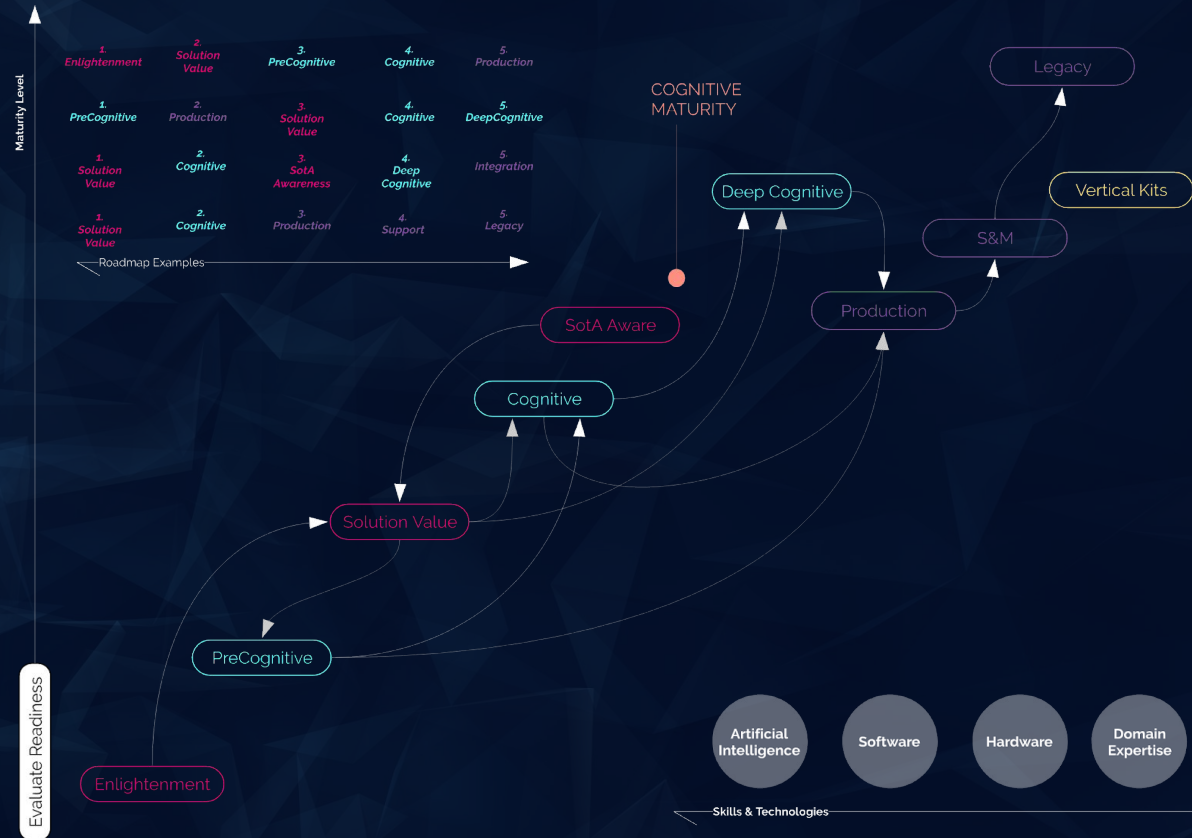
COGNITIE FRAMEWORK



AI DISRUPTIVE STRATEGY



COGNITIVE ENGAGEMENT



We operate with an
AI DISRUPTIVE STRATEGY via

AI Readiness | Discerning Value | AI Transformation
Leveraging Obstacles | Enterprise Level Use

to master
VALUE CREATION
COGNITIVE LEADERSHIP.

3

AI Readiness

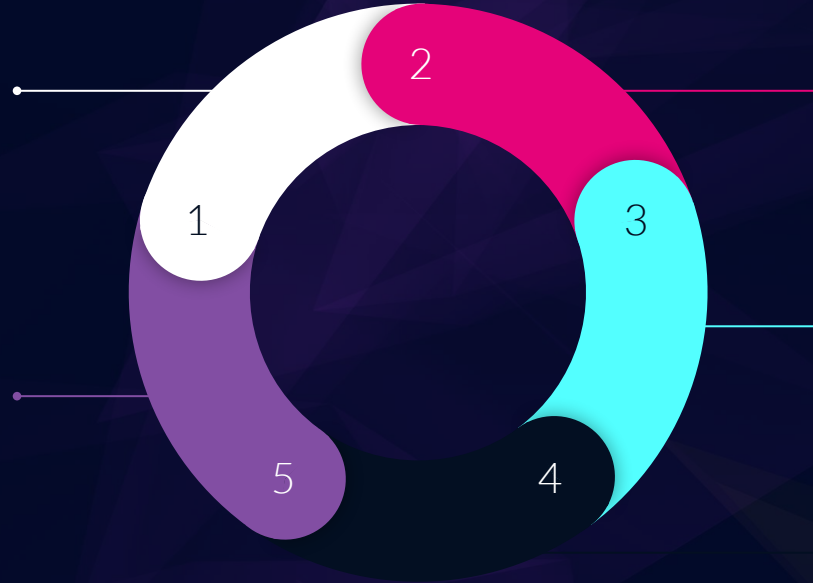
In depth readiness analysis focusing on key technology and business indicators, to derive existing gaps, advantages and potential.

Enterprise Level

Driving optimal AI value through strategic AI implementations that focus on enterprise scale and organisational governance, instead of isolated projects.

AI DISRUPTIVE STRATEGY.

COGNITIVE SHIFT from project to **PRODUCT MINDSET.**



Discerning Value Sources

Mastermind the unique AI positioning for serving best interests, through understanding key value-driving functions and analysing the market and organizational culture.

AI Transformation

Perceiving AI as more than a tool or technology that can enhance the existing business, by embracing it as a transformative capability that can drive novel sources of business value.

Surpassing Obstacles

Acting in the momentum by turning the existing obstacles - data challenges, lack of AI talent, technology hurdles, regulations - into competitive advantage enablers.

We provide our **COGNITIVE FRAMEWORK**

Cognitive Engagement | Cognitive Kits |
Cognitive Lattice | Maturity Curve

for
**BUSINESS INNOVATION
AND ENHANCEMENT.**



4

COGNITIVE ENGAGEMENT.



- Proprietary **cognitive framework** composed of Business, Development, Operational, Vertical Kits.
- Covering the **entire value chain cycle** of a business.
- Offering **closed loop governance** for all cognitive demands.
- Used for both existing business **enhancement** and business **innovation** through AI.

KITS SUMMARY

Assessment Kit				
Business Kits	Dev Kits	Ops Kits	Vertical Kits	
Enlightenment	PreCognitive	Integration	AI Ops	AI DB
Solution Value	Cognitive	Support & Maint.	Forecasting	Profiling
SotA Awareness	DeepCognitive	Legacy AI	IoT	NoCodeAI

BUSINESS	DEVELOPMENT	OPERATIONAL	VERTICAL
Enlightenment	Pre-Cognitive	Integration	AI Operations
Getting in shape for tackling cognitive solutions.	Bridging the readiness gap towards cognitive solutions.	Expand solution to a secured end-to-end implementation.	Enhancing IT Operations with AI.
<ul style="list-style-type: none"> → Leadership Education. → Cognitive Board Formation. → Cognitive Processes Adoption. → Deep Industry Insights. 1	<ul style="list-style-type: none"> → Data Collection. → Infrastructure & Automation. → Outcome Prediction. → PreCognitive System Engineering. 1	<ul style="list-style-type: none"> → SaaS and On Premise Deployment. → CI/CD and Release Strategy. → Existing Services API Integration. → Security Layer Development. 1	→ Refining Data Analysis.
Solution Value	Cognitive	Support & Maintenance	AI Databases
Defining a cognitive solution for a specific use-case.	Apply existing SotA solutions to well defined industry use-cases.	Ongoing models maintenance, monitoring and management.	AI optimised Databases.
<ul style="list-style-type: none"> → Identifying Cognitive Opportunities. → Selecting High-Priority Use-cases. → Evaluating Business Value. → Implementation Roadmap. 2	<ul style="list-style-type: none"> → Standard Use Case Implementation. → Similar Use-case Translation. → Standard Cognitive Adoption. → Cognitive Model Engineering. 2	<ul style="list-style-type: none"> → Cognitive Metrics Evaluation. → Software patches & fixes. → Notification Systems Integration. → Continuous Retraining of Existing Models. 2	→ Fast Data Throughput.
State of Art Awareness	Deep Cognitive	Legacy	Forecasting
Maintain client's competitive advantage and ROI.	AI pioneering and surpassing the SoTA cognitive systems.	Restoring and modernizing legacy cognitive solutions.	Prediction based on past data & trends.
<ul style="list-style-type: none"> → Cognitive Market Updates. → Monitoring of Competition. → Novel Cognitive Proposals. → Adapting to Business Dynamics. 3	<ul style="list-style-type: none"> → Novel Models for Specific Use Cases. → Above SoTA Cognitive Model R&D. → High-Risk High Reward. → Deep Cognitive Model Engineering. 3	<ul style="list-style-type: none"> → Update to Industry Tools & Standards. → Entire Evolution Process Government. → Cognitive Legacy Focus. → Models Re-Engineering, SoTA Upgrade. 3	→ Insights for Future.
			User Profiling
			User portraits for decision making.
			→ Targeted Services.
			Internet of Things
			AI Integrated with Edge Devices.
			→ Hardware Integration.
			No Code AI
			AI usage without coding or tech skills.
			→ AI Platform.

Cognitive Vectors

Problem-Technique

Region-Potential

Problem-Use Case

Technique-Industry

Industry-Value

Technique-Function

Industry-Consumption

Data-Use Case

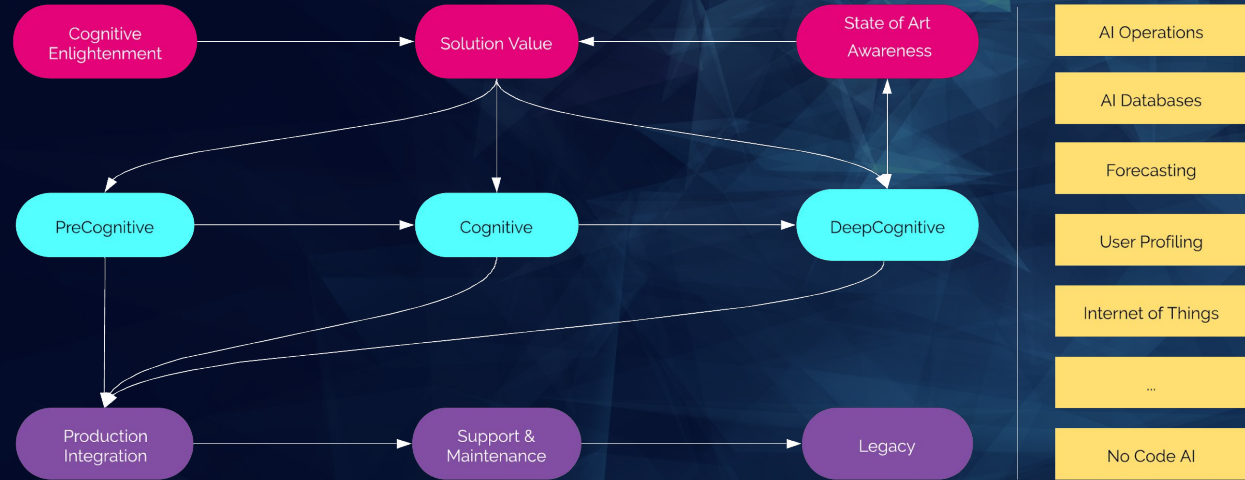
- Cognitive reinforcement lattice serving all stages of cognitive development in an organisation.
- Creating vertical value by cross vectoring through the kits chain.
- Providing smooth inter-kit transitions at proper maturity stage .

COGNITIVE LATTICE.

BUSINESS
CHAIN

DEV
CHAIN

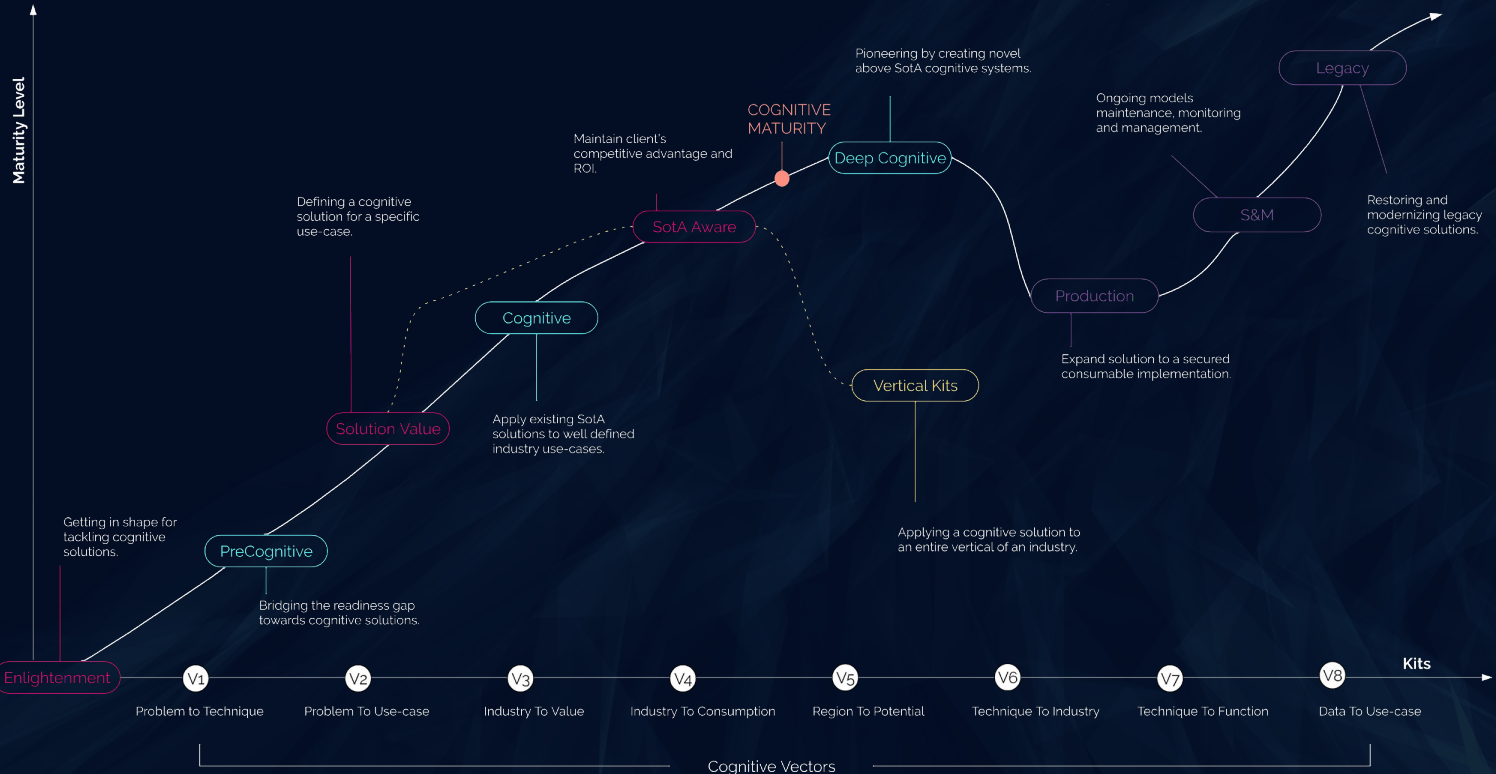
PROD
CHAIN



- Roadmap towards Cognitive Maturity.
- Our portfolio covers the entire transformative cycle.

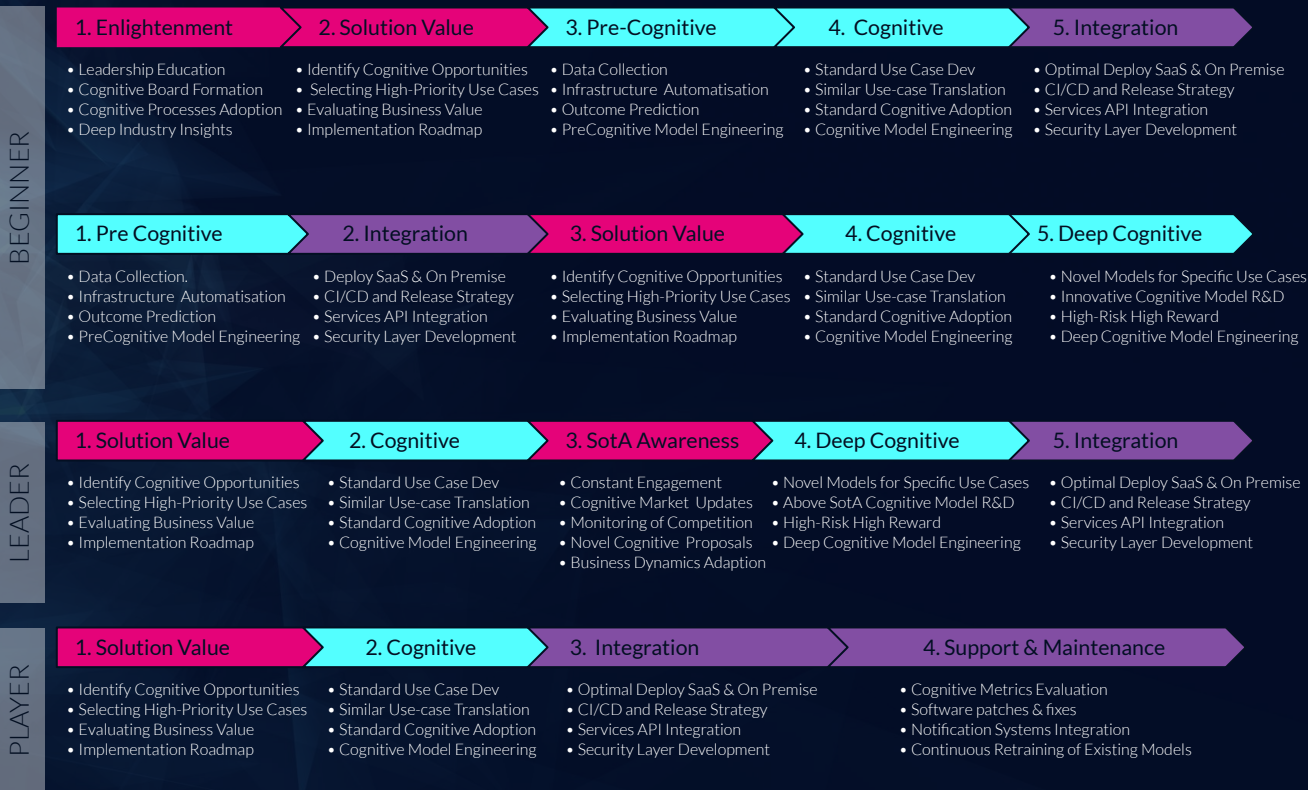
● Business Kits ● Development Kits ● Production Kits ● Vertical Kits

CURVE OF MATURITY.



ROADMAP EXAMPLES.

AI Readiness Assessment



Our proprietary **COGNITIVE KITS**

Business Kits | Development Kits
Operational Kits | Vertical Kits

can
ENGAGE ALL STRUCTURES
AND MATURITY LEVELS.



AI Readiness

Determining the AI readiness level.

- DESIRE FOR AI ENGAGEMENT
- OPENNESS TO STRATEGIC INVESTMENT
- OPENNESS TO INNOVATE AND ADAPT

Digitalization Readiness

Analysing the impact of digital technologies in the business model, revenue streams and value production.

Culture Readiness

Analysing the openness to, understanding of, and engagement in the key cognitive tenets. Understanding key values of the company.

Business Readiness

Entire value-chain analysis of products, services, sales strategy, market fit, client retention, partners, financial maturity, and risk prevention.

Infra & Data Readiness

Assessing key data sources, pipeline flows, and integrated tools for cognitive systems adoption.

Methodology Readiness

Overall evaluation of existing processes, methodologies, governance, and ownership.

Strategy & Vision

Evaluating the company's history, current vision, long term goals and strategy for cognitive fitness.

Enlightenment

Getting in shape for tackling cognitive solutions.

- COGNITIVE COMPETITIVE ADVANTAGE
- BUSINESS AI TRANSFORMATION
- COGNITIVE BUSINESS FOUNDATION

INTRODUCTORY

PLAYER

LEADER

C Level Engagement

Building fundamental cognitive awareness at the executive level, in terms of technology, business, and leadership.

Strategy Alignment

Infusing cognitive tenets and schemes in the existing business strategy, for cognitive goals alignment.

Methodology Implementation

Design and implement essential cognitive processes and plans for agile and proactive implementation flows.

Deep Industry Analysis

Deep Industry and Competition analysis for strategy alignment to existing cognitive trends.

Management Engagement

Engaging and preparing all leadership levels for an integrated cognitive engagement, focused on impact and risk assessment.

Cognitive Organisational Model

Governance transformation for centralised cognitive capabilities and decision rights. Devise competitive advantage strategy,

Solution Value

Defining a cognitive solution for a specific use-case.

- AI STRATEGY FOUNDATION
- AI PROCESSES CONSOLIDATED
- DESIRE TO ENGAGE IN AN AI USE CASE

INTRODUCTORY

PLAYER

LEADER

Value Chain Analysis

Analysing and mapping the key value drivers in a business unit, in preparation for cognitive value creation.

Business Case Identification

Use Case formulation based on the value chain analysis, proposed timeline and resource availability.

High Level Roadmap

End to end high-level implementation roadmap including strategy, methodologies and timeline.

Market Dynamics Analysis

Selected use case tailored market research for business plan optimisation, with a focus on value determination and delivery.

Actionable Roadmap

Detailed roadmap creation for product coordination, including tasks prioritization, team formation, team integration processes, and financial analysis.

Risk & Impact Assessment

Tailoring the Use Case based on potential impact, core scenario predictions, and implementation risks assessment.

SotA Awareness

Maintaining competitive advantage and Return of Investment.

- AI STRATEGY FOUNDATION
- AI PROCESSES CONSOLIDATED
- DESIRE TO ENGAGE IN AN AI USE CASE

INTRODUCTORY

PLAYER

LEADER

Technology Updates

Deliver technology update reports for a specific solution value based on technology trends.

Enhancement Proposals

Comparing implemented solution value with technology market trends and proposing enhancements.

Market Updates

Providing market analysis for a specific solution value. Keep to date with solution translational to possible new verticals.

Competition Updates

Competition research and reports for devising differentiation factors and responding strategies.

Business Awareness

Staying connected to the business dynamic to properly react when the cognitive systems requires adaptation.

Business Innovation

Comprehensive analysis of both external and internal factors for new business model or product creation.

PreCognitive

Bridging the gaps towards cognitive solutions.

- COGNITIVE SOLUTION VALUE
- COGNITIVE BUSINESS STRATEGY
- NO DATA OR COGNITIVE INFRASTRUCTURE

INTRODUCTORY

PLAYER

LEADER

Problem Formalisation

Focus on a low level technical definition of the solution value based on the existing business roadmap, desired deliverables, and cognitive vectors.

Cognitive Infrastructure

Proper cognitive infrastructure adoption for robust and efficient AI systems integration.

One Type Data Infrastructure

Building and integrating a data type source into a pre processing and data analysis pipeline for a specific solution value.

Preliminary Model Engineering

Building pre cognitive models which deliver value, stabilize the cognitive infrastructure, as part of the transition towards cognitive models.

Multi Source Data Ingestion

Building and integrating multiple data type sources into a pre processing and data analysis pipeline for a specific solution value.

1st Cognitive Model

Transitioning towards cognitive solutions by implementing a cognitive model for the proposed solution value.

Cognitive

Applying SotA Solutions to well defined industry use cases.

- COGNITIVE SOLUTION VALUE
- COGNITIVE DATA STRATEGY
- COGNITIVE INFRASTRUCTURE

INTRODUCTORY

PLAYER

LEADER

Problem Formalisation

Focus on a low level technical definition of the solution value based on the existing business roadmap, desired deliverables, and cognitive vectors.

Optimal Solution Selection

Researching the current available technical solutions for best approach for the solution value at hand.

Standard Use Cases

Focus on using battle-tested cognitive models for solution values that can be developed via already standardised Use Cases.

Data Collection & Processing

Implementing a data strategy for proper data collection based on solution requirements, and pre-processing based on technology needs.

Translational Use Cases

Focus on translating acknowledged cognitive models for solution values that can be developed via similar but unapplied Use Cases.

Advanced Optimisation Techniques

Applying a diverse range of advanced optimisation techniques for achieving outstanding model performance.

DeepCognitive

Pioneering novel State-of-Art cognitive systems development.

- COGNITIVE SOLUTION VALUE
- DESIRE TO PUSH THE LIMITS OF AI
- HIGH RISK HIGH REWARD MINDSET

INTRODUCTORY

PLAYER

LEADER

Problem Formalisation

Low level technical definition of the solution value based on the existing business roadmap, desired deliverables, and cognitive vectors.

Solution Proposals

Proposing several solution approaches guided by the existing technology and academic trends.

Novel Use Cases

Building SotA cognitive models for novel use cases.

Advanced Data Creation

Employing entire data governance for achieving optimal data distribution for the solution value. Focus on creating above SotA models.

Academic & Market Analysis

In depth academic literature review and market analysis for deriving key factors that shall guide the cognitive model R&D process.

Optimal Hypothesis Search

Research for innovative above SotA cognitive models in challenging and high-reward Use Cases. Hypothesis Set Formulation, Evaluation, and Convergence

Production

Expand cognitive solution to a secured consumption model.

- COGNITIVE INFRASTRUCTURE
- (PRE/DEEP) COGNITIVE MODEL
- READINESS TO DERIVE VALUE FROM AI

INTRODUCTORY

PLAYER

LEADER

Models Integration

Seamless deployment and integration of cognitive models into production ecosystem.

End to End Infrastructure Optimisation

Tailoring the existing infrastructure for proper model integration.

Production System Development

Taking care of any software or hardware development needs for cognitive model integration.

Cognitive Release Strategy

Devising a cognitive strategy for release cycle governance. Creating and integrating new infrastructure blocks.

Cognitive Testing & Security

Advanced model testing and security enhancements for a secured system run and user experience.

Automatic Metrics Monitoring

Creating autonomous monitoring systems for efficient response time and history tracking.

Support

Proactive cognitive live engagement.

- DEPLOYED COGNITIVE MODEL
- COGNITIVE BUSINESS STRATEGY
- DESIRE TO RETAIN COGNITIVE VALUE

INTRODUCTORY

PLAYER

LEADER

Software Patches & Bug Fixing

Delivering bug fixing and software patches under a proper development, staging and production strategy.

Online Documentation

Proper documentation of the entire cognitive model development cycle and its running characteristics.

Tracking & Notification Systems

Implementation of automatic tracking and notification systems for fast reaction times.

Cognitive Governance

Fast monitoring and reaction to relevant cognitive metrics as needed. Deriving insights from history metrics.

Cognitive Updates

Models re-training and updates based on newly acquired data from different sources. Continuous testing of optimisation techniques for model improvement.

Cognitive Management Service

Ongoing maintenance, monitoring, and management of all cognitive systems across the company. Potential for multi model integration.

Legacy

Cognitive

- COGNITIVE INFRASTRUCTURE
- COGNITIVE BUSINESS STRATEGY
- EXISTING DATA

INTRODUCTORY

PLAYER

Technology Stack Update

Adapting the existing tools and frameworks of a deployed cognitive system to latest versions.

Adapting Existing Infrastructure

Updating existing infrastructure to serve the new technology stack needs.

Testing Coverage

Proper testing procedure including Acceptance Tests, System Tests, Integration tests, Unit tests.

New Tools Integration

Integrating or exchanging new tools or frameworks in the system, while maintaining its core functions.

Up to Date Enhancements

Proposing and adding new improvement features to the refactored cognitive system. Models upgrades to SotA versions.

Data & Architecture Refactoring

Enhancing data distribution with up to date datasets, and redesigning the existing cognitive architecture to meet SotA requirements.

We bring

COGNITIVE EXPERTISE via

Academic Background | Industry Experience
Skills & Technologies | Interdisciplinary Expertise

to help

**CLIENTS ACHIEVE
COGNITIVE MATURITY.**



SAMPLE CASE STUDIES.

Cyberphysical systems simulation for **real-time production cycle optimization**.

Scheduling pipelines for processing a variety of historical events.

Automation workflows for cluster turn up and turndown in storage layers.

Capacity planning by predicting resources requirements.

Anomaly detection on monitoring data from **production series**.

Airport ground **lighting system management**.

Planning critical **railway** business processes.

Providing **internet via SMS/Voice**, with no WIFI/Data Connection.

Real time abstraction for **optimized water** management analytics.

Medical Imaging Analysis for Prevention and Diagnostics (CT, fMRI).

App to promote a **healthy lifestyle** among children and encourage a better relationship with **school doctors**.

SNNs biology based research for **single-shot learning**.

Fish ports **process management and optimisation** for reducing cost and carbon emissions, and increasing renewable energy production.

Cloud **detection from satellite observations**, using multispectral images.

Land **classification** from multiple, complementary remote imaging sources.

Geospatial data processing.

2D Texture Analysis in complex and cluttered images.

3D Motion Planning, **Sensor fusion** and filtering for **autonomous navigation** of **drones** through dense urban environments.

Cloud framework for the coordination of large projects in **AEC industry**.

Strategic intent extraction from Text, Images, Audio, Videos, IoT, Sensors.

Malicious intent (ex. weapons) awareness, from live-stream video analysis for **airports, schools, shops**.

No Code platform for citizens and **industry experts** to quickly **create and deploy AI models** without deep AI knowledge.

Agriculture supply and demand **prediction and process optimisation**.

Embedded software platforms development for proprietary **application specific integrated circuits**.

Free space detection around vehicles, **localization** and the determination of **sensor performance**.

Microstrip Low Pass Filter for controlled impedance routing and matching in circuits.

Schematic designs, simulations and electrical testing for various **automotive** transmission projects.

Stress analysis, steel/composite structures design, 3D modelling in **structural engineering**.

Numerical models of dry friction between nominally rough surfaces.

CNT based Brain Computer Interface R&D for optical and electrical recording and stimulation.

Research in **therapeutic solutions** for **neurodegenerative** diseases.

Financial Analysis for predictions and recommendations.

Autonomous decision systems for **smart cities**.

OCR Engines for **financial** processing.

Research in **spike processing** methods.

INSIGHTS CASE STUDIES.

Personal Digital Banking

Budget Forecasting.
User Profiling.
Personalized Recommendations.

BMI Development

Neurodegenerative Diseases.
Neuroscience Research.
Diseases Treatment.

Digital Health Coach

Health Promotion.
Disease Prevention.
Digital Coaching.

No Code AI

Empowering AI Usage
No Coding Required.
No Deep AI knowledge Required.

MRI Infrastructure

Disease Research & Prediction.
MRI in Psychology.
Virtual Reality & Robotics.

Malicious Intent Awareness

Preventing Dangerous Situations.
Gun Detection.
Identity Recognition & Tracking.

SKILLS. TECHNOLOGIES.

AI Areas: NLP, Computer Vision, Game Theory, RPAs, Autonomous Systems, Large Scale, Recommender Systems, Algorithm Analysis & Design, Supervised Learning, Unsupervised Learning, Reinforcement Learning, Control Theory, Robotics, Signal Processing, IoT.

AI Core Tools: SciKit, Keras, FastAI, Matlab, Tensorflow, Pytorch, OpenCV, LightGBM Xgboost | Weka.

AI Techniques: Transfer Learning, Deep Learning (FFN, CNN, RNN, GAN), Dimensionality Reduction (PCA, tSNE), Ensemble Learning (Random Forest, Gradient Boosting), Instance Based (KNN), Decision Tree Learning, Monte Carlo Methods, Linear Classifiers, Clustering (K-means, Tree Based, DB Scan), Statistical Inference (Bayesian), Markov Processes, Regression Analysis (Linear, Logistic, Lasso), Descriptive Statistics (Confidence Intervals), Naive Bayes Classifiers, Genetic Algorithms, SVM, Classical AI (Search, Constraint Propagation, Planning), Data Science Techniques, Search.

AI Problem Types: Classification, Continuous Estimation, Clustering, Optimisation, Anomaly Detection, Ranking, Profiling, Recommender Systems, Data Generation.

AI Data Types: Images, Video, Audio, Text, Time Series, Structured/Semi-Structured.

SCIENCES: Neuroscience, Cognitive Sciences, Brain Inspired AI, EEG, Optogenetics, BMIs, Applied Mathematics, Physics, Biology, Finance, Chemistry, Health, Medical Imaging, Medicine, fMRI, EKG, Geospatial, Numerical Simulation, Scientific Writing, Manufacturing, Production, Transportation, Logistics, Agriculture, Social, Security, Automotive.

SW Knowledge: Container Management, Cloud Computing, Deployment Strategy, Distributed Systems, CI-CD, Database Management, Devops, Mobile, Web, Embedded, MicroServices, Security, Simulations, Frontend, Backend, High Performance

SW Languages: Python, C, C#, Java, JavaScript, TypeScript, C++, HTML, CSS, Bash, .NET, F#, Julia.

SW Tools: Spring, SQL, Android, iOS, ElasticSearch, React, Maven, Gradle, Kafka, Ionic, Jenkins, Flask, RabbitMQ, Azure, GCC, AWS, Gearman, Angular, GIT, Kubernetes, Swarm, Rancher, Anaconda, NodeJS, Hibernate, Liquibase, Jenkins, Spinnaker, scrapy, FlytOS, Junit, Mockito, Azure Cloud, Dataflow, Apache Beam, Tomcat, Kibana, Grafana, Amazon Cloud, SQLite, Firebase, Logstash, Fluentd, Linux, Docker, Unity 3D, ROS, Docker.

HW Knowledge: Altium Designer, LTSpice, Low Level Drivers, Firmware Test, Mechanics, Radio Communication, ASIC Driver Development, Memory Mapping, Signal Processing, Requirements Engineering, Embedded Applications, DSP, Signal Conditioning, Systems Control.

HW Skills: Simulation Modelling, Firmware, Analog Design, Digital Design, Mechanics, FPGA, MCU, Layout, IC Design, SW.

HW Tools: RSL10 SDK, Matlab, Eagle, Solidworks, AUTOSAR, LabView, Catia.

SAMPLE OF PROFILES.

AI | PhD | Tech Lead

• Python • Java • C++ • C • Bash • SciKit
• Tensorflow • Keras • Pytorch • FastAI • OpenCV
• Machine Learning • Computer Vision • NLP
• RL • Data Science • GIT • Android • Linux
• Kafka • Flask • Gearman • Anaconda
• RabbitMQ • Docker • Weka • Container
Management • Distributed Systems
• Deployment Strategy • Devops • Medical
Imaging • Medicine • Blockchain • Software
Engineering • Remote Sensing • Geospatial Data
Processing • Scientific Writing

AI | Tech Lead

• Python • Java • JS • Bash • SciKit • Tensorflow
Keras • Pytorch • FastAI • OpenCV • Machine
Learning • Computer Vision • NLP • RL • Data
Science • GIT • Spring • Elasticsearch • Kafka
• Flask • Scrapy • Dataflow/Apache • SQLite
• Docker • Dialog Flow • Recommender Systems
• Chatbots • Container Management
• Distributed Systems • Devops • Deployment
Strategy • Blockchain • Software Engineering
• Web Scraping • Big Data Processing

HW | Phd | Tech Lead

• Software • Firmware • Analog Design • Digital
Design • Mechanical • RSL10 SDK • AUTOSAR
• Matlab • LabView • Eagle • Catia • Solidworks
• Altium Designer • LTSpice • Low level drivers
• ASIC Driver Development • Embedded
Applications • Firmware Test • Memory Mapping
• DSP • Mechanics • Signal Processing • Signal
Conditioning • Radio Communication
• Requirements Engineering • Systems Control
• Simulation Modelling

SW Tech Lead

• Python • Java • C# • C++ • C • JS • Bash • .NET • HTML/CSS • Spring • Elasticsearch • Kafka • RabbitMQ • Angular 1/2 • NodeJS
• FlytOS • Tomcat • Firebase • SQL • React • Ionic • Azure • GIT • Hibernate /Liquibase • Junit / Mockito • Kibana / Grafana
• Logstash • Fluentd • Android • Maven • Gradle • Jenkins Pipeline • GCC • Kubernetes • Swarm • Rancher • Jenkins • Spinnaker • Azure
• AWS • Docker • Container Management • Distributed Systems • Deployment Strategy • Database Management • Cloud Computing
• CI/CD

90% SENIORITY
+75% Advanced Degrees



Can **Handle**



Can **Do**



Can **Teach**

DOMAIN SPECIFIC PROFILES.

Healthcare | Scientist

- Professor at University of Oxford • Professor at Georgetown University • MIT Mind Machine Project • U.S. Army • CIA • NSA • Computational Neuroscience at John Radcliffe Hospital • Neuro-computation • AI • Neurosurgery • Mathematics • Psychiatry • Neuroscience • Crypto-logistics • +80 Research Publications • +35 Patents

Physics | Researcher

- Researcher at Babes-Bolyai • Postdoctoral at UCLA and New Brunswick • Relaxation • Diffusion • Spectroscopy • Fast Field Cycling • MRI • fMRI • NMR • AFNI • FSL • SPM • Data Acquisition & Analysis SW • MRI Data Analysis, Acquisition & Interpretation • Atomic Force Microscopy • Dynamic Light Scattering • Materials Engineering • 8 Research Publications

SPECIFIC DOMAIN EXPERTISE

Energy | Scientist

- Research Fellow at Cardiff University • Distributed Systems • Cloud Computing • Edge Clouds • Internet of Things • Data Analytics • Software Defined Networks • Intelligent Buildings • Intelligent Infrastructures • Smart Energy Systems • Complex Engineering Workflows • +50 Research Publications • Inventor

Finance Exec | Expert

- International Business Management & Accounting • Group Financial Controller • KPMG & EY • Projects for €50M to €800M businesses • CFO Services for SME (€5M to €200M) • Financial Modelling & Transformation • M&A Financial Due Diligence • Organisational Design • Business Process Modeling • Strategic Planning • Restructuring • Management Control Systems • Procurement • Risks Management • Manufacturing • Software • Professional Services • Real Estate • Media • NGO

Materials | Scientist

- Researcher at Romanian Institute of Microtechnology • Nanotechnology • Characterisation • Nanomaterials • Material Science • MEMS • Spectroscopy • Microfabrication • Microfluidics • Biosensors • Physics • Electrochemistry • Plasma Processing • +300 Research Publications

Production | Expert

- Nokia (Mobile Phones Manufacturing) • SAP AG (Software) • Getrag AG (Automotive) • Steelcase (Office Solutions) • Ferrero Luxembourg (Confectionery) • Nestle (Food & Drink) • +8 Years of SAP Implementation • Demand Planning • Supply Network Planning • Production Planning Processes • Detailed Scheduling • Material Management to Procure to Pay • Sales & Distribution to Order to Cash and Available to Promise Processes • Test & Test Management • 2nd & 3rd Level Support • Logistics



Research



Expertise



Experience

Cognitive Vectors

The entire development process at both business and technical layers is guided by our set of **cognitive vectors** designed to focus on developing an optimal solution-market fit.

Problem To Technique

Industry standard mapping of problem types to applicable cognitive techniques, based on inputs, outputs and purpose.

Problem To Use-case

Market cognitive value potential assessment by determining the relevance and necessity of problem types to particular use-cases.

Industry To Value

Deriving strategic business plans based on up to date research in the potential of industries and functions to deliver value through cognitive solutions.

Industry To Consumption

The potential value of applying AI for your sector can be analysed in terms of personalisation, time saved, utility and data availability.

Region To Potential

Awareness of cognitive systems regional impact research, so that our clients can geographically position their AI solutions in the most rewarding contexts.

Technique To Industry

Creating most valuable development plans based on cognitive techniques relevance to industries.

Technique To Function

Creating most valuable development plans based on cognitive techniques relevance to functions.

Data To Use-case

Building data strategies based on existing research in data types relevance for specific use-cases and their overall cognitive potential value impact.

You may not copy, reproduce,
distribute, publish, display,
perform, modify, create
derivative works, transmit, or in
any way exploit any content
from this presentation without
our permission.

